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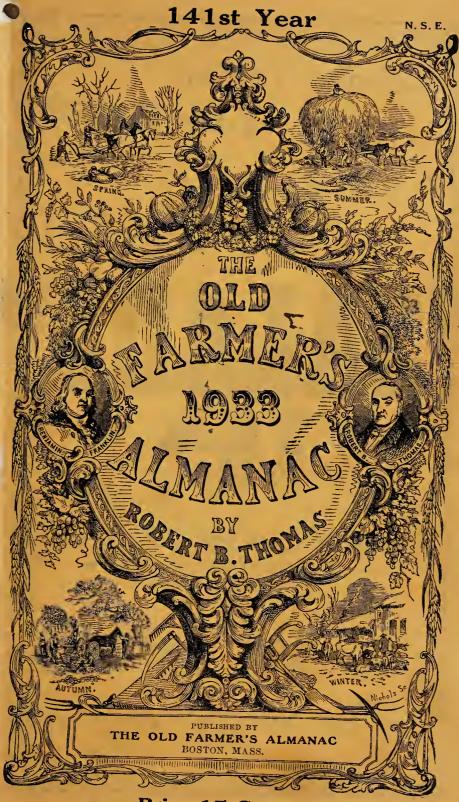
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FARMER'S ALMANACK,

CALCULATED ON A NEW AND IMPROVED PLAN FOR THE YEAR OF OUR LORD

1933

Being 1st after BISSEXTILE or LEAP-YEAR, and (until July 4) 157th of American Independence.

FITTED FOR BOSTON, BUT WILL ANSWER FOR ALL THE NEW ENGLAND STATES.

Containing, besides the large number of Astronomical Calculations and the Farmer's Calendar for every month in the year, a variety of

NEW, USEFUL, AND ENTERTAINING MATTER.

ESTABLISHED IN 1793

BY ROBERT B. THOMAS.



"While the bright radient fun in centre glows,
The earth, in annual motion round it goes;
At the fame time on its own axis reels,
And gives us change of feafons as it wheels."

From the Title Page, Old Farmer's Almanac First Issue, 1793.

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ZQ2XQUXQUXQQXQCXQCXQCXQCXQ

TO PATRONS AND CORRESPONDENTS.

To our friends throughout New England we present the 141st edition of what has been said to be the most historical and revered and withal the most authentic American publication—THE OLD FARMER'S ALMANAC.

This is the largest edition of the Almanac ever published— 96 pages. Many valuable features have been added including the new Federal Income Tax Laws and the Agricultural Experiment Stations of New England.

For 1933 we wish for every one of our hundreds of thousands of subscribers and their families all health, happiness and prosperity in this little old world of ours, remembering the words of our founder in 1793:

"It is by our works and not by our words we would be judged: these we hope will sustain us in the humble though proud station we have so long held....

(Continued on page 33)

County Agents Astronomical Calculations, Farmer's Calendar, etc. 6-29 Asteroids of 1932 30 Automobile in New England 41-44 Charades (and Answers to 1932 40 Colleges, Professional & Normal Schools 61 Counts 1 New England 63 Courts in New England 63 Eclipses for 1932 33 Eclipses for 1932 33 Eclipses for 1933 4 Elections in New England 64 Fish and Game Laws 51-56 Garden Hints 36 Household Hints 38 Income Taxes — Federal 48-5 Legislatures in New England 6 Morning and Evening Stars 3 Morning and Evening Stars 4 New Methods of Making Hay 3 Perihelion and Aphelion 4 and 3 Poetry, Anecdotes and Pleasantries 45-4 Postal Rates 57-55 President and Members of Congress 6 Presidents of the U. S. 6 Radio Stations in New England 64 Fish and Game Laws 51-56 Garden Hints 36-29 Household Hints 3 Income Taxes — Federal 48-5 Legislatures in New England 69 New Methods of Making Hay 3 Perihelion and Aphelion 4 and 3 Presidents of the U. S. 6 President and Members of Congress 6 Presidents of United States Supreme Court 6 United States Supreme Court 6 Venus, Mars, etc., 1933 Weather Bureau, U. S. 6									
JANUARY.	FEBRUARY.	MARCH.	APRIL.						
S M T W Th F S	SMTWThFS	S M T W Th F S	SMTWThFS						
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 -	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30						
MAY.	JUNE.	JULY.	AUGUST.						
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31		9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	-						
SEPTEMBER.	OCTOBER.	NOVEMBER.	DECEMBER.						
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	22 23 24 25 26 27 28	12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 - - - - -						

EXPLANATIONS FOR CALENDAR PAGES.

The Calculations are made for the latitude and longitude of Boston and are in Eastern Standard Time, i. e., the time of the 75th meridian West from Greenwich, which is 16 minutes behind Boston mean time; and for general purposes are sufficiently accurate for all parts of New England. If, however, greater accuracy is desired, regard may be had to the following precepts.

The Table given below contains corrections in minutes of time for a number of important places in New England, and any other place in New England can use the correction of the place in the Table which is nearest in longitude to itself.

For the Rising and Setting of the Sun, Moon and Planets add tabular quantity if longitude from Boston is West, but subtract it if East; and this will give the value when the place is in or near the same latitude as Boston. When the latitude of the place differs considerably from that of Boston, the correction will also be right when the celestial body is on or near the Equator; but when it is remote from the Equator so much accuracy cannot be expected.

For Sun Fast, subtract tabular quantity if longitude from Boston is West, but add it if East.

For Moon Souths, add tabular quantity if longitude from Boston is West, but subtract it if East.

Eastport, Me. 16 min. Bangor, Me. 9 " Augusta, Me. 5 " Lewiston, Me. 4 " Portland, Me. 3 " Biddeford, Me. 2 " Portsmouth, N.H. 1 " Provincetown, Mass. 4 "	Concord, N. H. 2 min. Nashua, N. H. 2 " Plymouth, N.H. 3 " Keene, N. H. 5 " Montpelier, Vt. 6 " Brattleboro, Vt. 6 " Rutland, Vt. 8 " Burlington, Vt. 9 "	Springfield, Mass. 6 min. Williamstown, Mass. 9 " Newport, R. I 1 " Providence, R. I 1 " Woonsocket, R. I 2 " New London, Conn 4 " Willimantic, Conn 5 " Hartford, Conn 6 "
Portsmouth, N.H 1 "	Rutland, Vt 8 "	Willimantic, Conn. , 5 "

If during any part of the year 1933 there is in operation in any State or City of New England any of the so-called "daylight saving" laws or ordinances, proper allowance for that should be made in applying the figures of time given in the Almanac, which figures, as above stated, are all herein given in Eastern Standard Time.

The Times and Heights of the Tides at High Water are for the Port of Boston (Navy Yard). The times of High Water are given on the left hand Calendar pages under "Full Sea." The heights of High Water in feet and tenths are given among other data on the right hand Calendar pages under "Aspects," &c. The heights are reckoned from Mean Low Water; each day has a set of figures—many of them preceded by the word "Tides." The upper figures give the height of the morning (A.M.) tide, and the lower that of the evening (P.M.) tide. evening (P.M.) tide.

Names and Characters of the Principal Planets.

	Venus. The Earth. Mars.	$\begin{array}{c c} & \Psi \text{ Neptune.} \\ & \stackrel{\wedge}{\mathbb{Z}} \text{ Vesta.} \\ & \stackrel{\wedge}{\mathbb{Q}} \end{array} \begin{array}{c c} \mathring{\mathbb{Q}} \\ & \mathring{\mathbb{Q}} \end{array}$	Juno. Pallas. Ceres.
--	-------------------------------	--	----------------------------

Names and Characters of the Aspects.

	•
d Conjunction, or in the same degree. ☐ Quadrature, 90 degrees.	O Dragon's Head, or Ascending Node. Dragon's Tail, or Descending Node.

Names and Characters of	the Signs of the Zodiac.
1. φ Aries, head. 2. 8 Taurus, neck. 3. Π Gemini, arms. 4. Δ Cancer, breast. 5. St. Leo, head. 6. Virgo, bead. 7. Δ Libra, read. 8. Scorpio,	elly. 10. 10. Capricornus, knees. 11. 22 Aquarius, legs.

		Unronological Cycles 101	Ι. Ι	700.
Golden Number Epact		15 Solar Cycle 3 Dominical Letter .		10 Roman Indiction 1 A Year of Julian Period 6646

Movable Feasts and Fasts for 1933.

Septuagesima Sun., Feb. 12	2 Good Friday,	Apr. 14 Whit-Sunday,	June 4
	6 Easter Sunday,	" 16 Trinity Sunday,	" 11
AshWednesday, Mar. 1	1 Low Sunday,	" 23 Corpus Christi,	" 15
1st Sunday in Lent, " 5	5 Rogation Sunday,	May 21 1st Sunday in	
TO 1 1 1	1 D	44 95 Advont	Dog 2

Palm Sunday, Apr. 9 Ascension Day, 25 Advent,

ECLUPSES FOR THE YEAR 1933.

In the year 1933 there will be two Eclipses: both of the Sun, both annular, and neither visible in New England.

- I. An Annular Eclipse of the Sun, February 24, 1933, invisible in New England. The Eclipse begins in the Republic of Argentina, in longitude 62° 21′ west from Greenwich, latitude 34° 56′ south, and ends in Egypt, in longitude 35° 51′ east from Greenwich, latitude 19° 0′ north. At its maximum, the annular phase of the Eclipse lasts 1 minute and 52 seconds.
- II. An Annular Eclipse of the Sun, August 21, 1933, invisible in New England. The Eclipse begins in Arabia, in longitude 41° 0′ east from Greenwich, latitude 28° 26′ north, and ends in Australia, in longitude 134° 21′ east from Greenwich, latitude 22° 16′ south. At its maximum, the annular phase of the Eclipse lasts 2 minutes and 18 seconds.

MORNING AND EVENING STARS, 1933.

Mercury will be most favorably seen as an Evening Star about March 6, July 2, and October 28, on which dates it sets 1h 35m, 1h 27m, and 0h 52m, respectively, later than the Sun; and as a Morning Star about April 20, August 17, and December 6, on which dates it rises 0h 49m, 1h 32m, and 1h 49m, respectively, before the Sun.

Venus will be Morning Star until April 21, and then Evening Star the rest of the year.

Mars will be Morning Star until March 1, and then Evening Star the rest of the year.

Jupiter will be Morning Star until March 9, then Evening Star until September 27, and then Morning Star the rest of the year.

Saturn will be Evening Star until January 27, then Morning Star until August 5, and then Evening Star the rest of the year.

THE SEASONS, 1933.

l	Winter b	oegins		December	21,	8h.1	δm.	P. M.		Sun e	nters	Capricornus,	100
l	Spring	4.6	1933,	March		8h.43					4 6	Aries.	ap
۱	Summer	4.6	4.4	June	21,	4h.13	2m.	P. M.		4.4	4 6	Cancer.	0-0
l	Autumn	6.6	4.4	September	23,	7h.	lm.	A. M.		4.4	6.6	Libra.	-2-
ì	Winter	4.4	6.6	December	22,	1h.5	Sm.	A. M.		6.6	6.6	Capricornus,	10°
۱	Spring	6.4	1934	March	21,	2h.28	8m.	A. M.		4.6	4.4	Aries.	m
l	•					1933,			0	hours	. 28	minutes.	
ì		6.1		Spring, 1	933.		92	4 6	19	4.4	29	6.6	
l		6.4		Summer,	44		93	6.6	14	6.6	49	6.6	
l		4.0	· •• 1	Autumn.	4.4		89	4.4	18	4.4	57	F 4	
l		6.1	1		933 -	1934.	89	4.6	0	6.6	30	4.4	
П						,							

EARTH IN PERIHELION AND APHELION, 1933.

January 3, 1933, 2h. P.M. Earth in Perihelion; distant from the Sun about 91,346,000 miles. July 2, 1933, 4h. P.M., Earth in Aphelion; distant from the Sun about 94,454,000 miles.

VENUS, MARS, JUPITER AND SATURN, 1933.

Below are given the times of the rising or setting of the Planets named, on the first, eleventh and twenty-first days of each month. The time of the rising or setting of any one of said Planets between the days named may be found with sufficient accuracy by interpolation.

accuracy by Interpolation.												
1933	VENUS	MARS	JUPITER	SATURN								
JANUARY 1st 11th 21st	h. m. rises 5 12 A.M. '' 5 33 A.M. '' 5 48 A.M.	h. m. rises 9 50 p.m. " 9 18 p.m. " 8 41 p.m.	h. m. rises 10 20 p.m. " 9 40 p.m. " 8 59 p.m.	h. m. sets 6 13 p.m. " 5 40 p.m. " 5 7 p.m.								
FEB'ARY 1st '' 11th 21st	rises 5 59 A.M. '' 6 4 A.M. '' 6 2 A.M.	rises 7 52 P.M. '' 7 1 P.M. '' 6 5 P.M.	rises 8 12 P.M. " 7 28 P.M. " 6 43 P.M.	rises 6 50 A.M. 6 14 A.M. 5 38 A.M.								
March 1st "11th "21st	rises 5 56 A.M. '' 5 48 A.M. '' 5 37 A.M.	rises 5 17 p.m. sets 6 2 A.M. "5 13 A.M.	rises 6 6 P.M. sets 6 13 A.M. " 5 31 A.M.	rises 5 9 A.M. ' 4 37 A.M. ' 3 57 A.M.								
APRIL 1st 11th 21st	rises 5 22 a.m. '' 5 12 a.m. '' 5 1 a.m.	sets 4 22 a.m. " 3 39 a.m. " 2 59 a.m.	sets 4 45 A.M. " 4 3 A.M. " 3 22 A.M.	rises 3 17 A.M. 2 39 A.M. 2 2 A.M.								
MAY 1st 11th 21st	sets 6 54 P.M. '' 7 20 P.M. '' 7 44 P.M.	sets 2 21 A.M. 1 46 A.M. 1 13 A.M.	sets 2 41 A.M. '' 2 2 A.M. '' 1 23 A.M.	rises 1 24 A.M. '' 0 46 A.M. '' 0 7 A.M.								
June 1st 11th 21st	sets 8 8 P.M. '' 8 25 P.M. '' 8 36 P.M.	sets 0 38 A.M. " 0 4 A.M. " 11 34 P.M.	sets 0 41 A.M. " 0 3 A.M. " 11 26 P.M.	rises 11 20 P.M. " 10 40 P.M. " 10 00 P.M.								
July 1st 11th 21st	sets 8 40 P.M. '' 8 39 P.M. '' 8 33 P.M.	sets 11 5 p.m. " 10 37 p.m. " 10 10 p.m.	sets 10 46 P.M. '' 10 10 P.M. '' 9 34 P.M.	rises 9 20 p.m. " 8 39 p.m. " 7 58 p.m.								
August 1st '' 11th '' 21st	sets 8 21 P.M. " 8 8 P.M. " 7 54 P.M.	sets 9 40 P.M. '' 9 16 P.M. '' 8 49 P.M.	sets 8 55 p.m. '' 8 20 p.m. '' 7 45 p.m.	rises 7 12 p.m. sets 4 23 a.m. " 3 40 a.m.								
SEPTEM'R 1st " 11th " 21st	sets 7 37 P.M. '' 7 23 P.M. '' 7 10 P.M.	sets 8 23 P.M. " 8 00 P.M. " 7 39 P.M.	sets 7 6 P.M. '' 6 32 P.M. '' 6 00 P.M.	sets 2 53 a.m. '' 2 11 a.m. '' 1 29 a.m.								
OCTOBER 1st 11th 21st	sets 7 00 P.M. '' 6 54 P.M. '' 6 52 P.M.	sets 7 20 P.M. '' 7 2 P.M. '' 6 47 P.M.	rises 5 22 A.M. '' 4 53 A.M. '' 4 24 A.M.	$\begin{array}{cccccccccccccccccccccccccccccccccccc$								
Novem'r 1st '' 11th '' 21st	sets 6 55 P.M. '' 7 4 P.M. '' 7 16 P.M.	sets 6 33 P.M. 6 24 P.M. 6 17 P.M.	rises 3 52 A.M. " 3 23 A.M. " 2 56 A.M.	$\begin{array}{cccccccccccccccccccccccccccccccccccc$								
DECEMB'R 1st " 11th " 21st " 21st	sets 7 28 P.M. '' 7 43 P.M. '' 7 44 P.M. '' 7 40 P.M.	sets 6 11 P.M. 6 9 P.M. 6 9 P.M.	rises 2 26 A.M. 1 55 A.M. 1 23 A.M.	sets 8 54 P.M. " 8 18 P.M. " 7 44 P.M. " 7 10 P.M.								
" 31st	7 40 P.M.	" 6 9 P.M.	0 50 A.M.	" 7 10 р.м.								

TIDE CORRECTIONS.

Both the times and heights of the Tides in the calendar are for the Port of Boston. The following table gives the approximate difference between Boston and the places named. If the hours and minutes opposite a place named in the table are preceded by a "+" sign, the time of high water at that place will be that much later than at Boston; if preceded by a "-" sign, high water will be that much earlier. This also applies to the heights of the tide. If the feet in the table opposite the place are preceded by a "+" sign, the height of high water at that place will be that much higher than the height at Boston; if preceded by a "-" sign, the height of high water will be that Boston.

neight at Boston.		
Port	h.m. fee	et
Augusta, Me +	3 42 - 5.	5
Bangor, Me	0.17 + 8.5	5
Bar Harbor, Me —	0.41 + 0.9	Э
	0.42 - 8.3	2
	0.26 + 0.	
	8 58 — 6.	
	0.29 - 0.8	
	0 10 -2.	
	$3\ 25\ -5.0$	
	0.27 + 0.0	
Chatham Lights, Mass +		
Cohasset, Mass		
Eastport, Me —		
Edgartown, Mass +		
Fall River, Mass		
Gloucester, Mass —		
Greenport, L.I		
Narragansett Pier, R.I	0 41 - 0	_

Port h.m.	feet
New Bedford, Mass8 31	- 5.6
Newburyport, Mass + 0 11	-1.8
New Haven, Conn -0.12	- 3.6
New London, Conn -1 58	7.1
Newport, R. I	-6.1
New York, Gov. Island 8 12	-5.2
Plymouth, Mass 0 08	+ 0.0
Point Judith, R. I 3 41	-6.5
Portland, Me 0 20	-0.7
Port Clyde, Me 0 85	- 03
Portsmouth, N. H 0 08	- 0.9
Providence, R. I 3 14	- 5.0
Provincetown, Mass 0 09	- 0.4
Rockland, Me -0.28	+ 0.1
Salem, Mass 0 12	-0.6
Sandwich, Mass. , + 0 02	-0.2
Stamford, Conn -0.18	-2.3
Stonington, Conn -225	-6.9
Vineyard Haven, Mass + 0 13	7.9
West Falmonth, Mass 8 39	- 5.5
Wood'sHole, Fish Com, Whf 8 03	- 7.8

1933] JANUARY, FIRST MONTH. ASTRONOMICAL CALCULATIONS. Days. d. m. Days. d. m. Days. d. m. Days. d. Days. d. m, m. O's Declination. 7 22 22 13 21 28 19 20 20 2518 57 23s.0022 14 21 18 20 20 07 26 8 14 18 42 2 22553 22 49 9 22 06 15 21 07 2119 5427 18 27 2220 5618 11 4 2243 10 21 57 16 19 40 2821 48 $20 \ 44$ 2319 26 29 17 555 2237 11 17 6 22 21 38 2430 1218 $20 \ 32$ $19 \ 12$ 3017 39

- p First Quarter, 3d day, 11h. 24m., morning, E.
- O Full Moon, 11th day, 3h. 36m., evening, E.
- New Moon, 25th day, 6h. 20m., evening, W.

	Day of Year.	दूर्य	of ek.		()		Len	gth	Ď	ay's	Sun Fast.	Moon's	Full Bos	Sea, ton.	D's)		D
	Yea	Day of Month.	Day of the Week.			Se	ts.	of D	āys. m.	h.	ner. m.	æ⊆ m.	10c	Morn h.	Even h.	Place	Se	ts.	Sou	ths. m.
		1	S.	$\frac{ \mathbf{h}. }{ 7 }$	14		$\frac{111}{22}$	9		0		$\overline{12}$	5	$\frac{1}{2\frac{3}{4}}$	3	Psc	$\frac{10}{10}$	$\frac{\mathrm{m}}{29}$	4	$\frac{\mathrm{m.}}{24}$
	I	$\frac{1}{2}$		7	14		$\frac{22}{23}$	9		0		$\frac{12}{12}$	$\frac{3}{6}$	21			11			
	2	$\frac{2}{3}$	M.	1	$\frac{14}{14}$		$\frac{23}{24}$	9			$\frac{6}{6}$		7	$3\frac{1}{2}$	$\frac{3\frac{3}{4}}{48}$				5	06
	3	1	Tu.	7					10					$4\frac{1}{2}$	43	Ari	mo		5	46
	4	4	W.	7	14		25	9		0	7	11	8	$5\frac{1}{4}$	54	Ari	0	37	6	28
	5	5	Th.	7	14			9	12		8	10	9	$\frac{6}{2}$	$6\frac{1}{2}$	Tau	1	41	7	11
	6	6	Fr.	7	14		27	9	13			10		7	$7\frac{1}{2}$	Tau	2	45	7	56
	7	7	Sa.	7	14			9	14		10		11	73		G'm	3	48	8	44
	8	8	S.	7	13			9	16		12		12	$8\frac{1}{2}$	$9\frac{1}{4}$	G'm	4	50	9	35
	9	9	M.	7	13	4	30	9	17	0	13	8	13	$9\frac{1}{4}$	$9\frac{3}{4}$	G'm	5	49	10	28
	10	10	Tu.	7	13	4	31	9	18	0	14	8	14	10	101	Cnc	6	40	11	21
	ΙI	11	W.	7	13	4	32	9	19	0	15	8	0	$10\frac{3}{4}$		Cnc	ris	ses	mo	rn
	12	12	Th.	7	12	4	33	9	21	0	17	7	16	$11\frac{1}{2}$		Leo		22		13
	13	13	Fr.	7	12	4	34	9	22	0	18	7	17	0	0	Leo	6	32	1	03
	14	14		7	12		36	9	24		20	7	18	$0\frac{1}{2}$	$0\frac{3}{4}$	Leo	7	$\overline{42}$	1	50
	15	15	S.	7	11		37	9	$\overline{26}$		22	6	19	$1\frac{1}{4}$		Vir	8	$\overline{51}$	$\frac{1}{2}$	36
1	16	16	Μ.	7			38	9	27		23	6	20	2^{-4}	$\frac{1}{2\frac{1}{4}}$	Vir)	01	3	21
1	17	17	Tu.	7			39	9	29		$\overline{25}$	6	$\begin{vmatrix} -1 \\ 21 \end{vmatrix}$	$\frac{23}{4}$	3	Lib		13	4	06
	18	18	W.	7			40	9	30		$\overline{26}$	5	22	$\frac{3_{\frac{1}{2}}}{3_{\frac{1}{2}}}$	$\frac{3}{4}$	Lib	mo		4	52
	19	19	Th.	7			$\frac{1}{41}$	9	$\frac{32}{32}$		$\frac{1}{28}$	5	23	$4\frac{1}{4}$	43	Sco	0	27		$\frac{32}{42}$
	20	$\frac{1}{20}$	Fr.	7			$\frac{1}{42}$	9	34		30	5	$\frac{24}{24}$	$5\frac{14}{5}$	6^4	Sco	1	$\frac{21}{45}$	6	35
	21	$\frac{20}{21}$	Sa.	7	1		44	9	36		$\frac{32}{32}$	4	$\frac{24}{25}$	$6\frac{1}{4}$	$\frac{0}{7}$		3	03	7	33
		$\frac{21}{22}$	S ₋	7			45	9	38		$\frac{32}{34}$	4	$\frac{26}{26}$		8	Sgr		19		
1	22	$\frac{22}{23}$	M.	7			$\frac{47}{47}$	9	41		37	4	$\frac{20}{27}$	$\frac{7\frac{1}{4}}{81}$	9	Sgr		$\frac{19}{28}$		36
	23	$\frac{23}{24}$	Tu.	7			48	9	42		38	4	$\frac{21}{28}$	84		Cap				41
ı	24	24					$\frac{40}{49}$	9			40		40	$9\frac{1}{2}$	10	Cap				45
	25	1 1	W.	$\frac{7}{7}$				_	44			3	Ц	$10\frac{1}{4}$	11	Aqr	se.			45
	26	26	Th.	$\frac{7}{2}$			50	9	46		42	3	1	$11\frac{1}{4}$	113	Aqr		46		40
	27	27	Fr.	7	- 4		$\frac{52}{52}$	9	49		45	3	$\begin{vmatrix} 2 \end{vmatrix}$	-	$\begin{bmatrix} 0 \end{bmatrix}$	Aqr		59	1	29
	28	$\frac{28}{20}$	Sa.	$\frac{7}{7}$			53	9	51		47	3	3	$0\frac{3}{4}$	1	Psc		09		15
1	29	$\frac{29}{29}$	S.	$\frac{7}{7}$	1		54	9	53		49	2	4	$1\frac{1}{2}$	$1\frac{3}{4}$	Psc		16	2	58
1	30	30	M.	$\frac{7}{2}$			55	9	55		51	2	5	$2\frac{1}{4}$	$2\frac{1}{2}$	Ari	10	22		40
-	31	31	Tu.	6	59	4	57	9	58	0	54	2	6	3	$3\frac{1}{4}$	Ari	11	27	4	22
					-															



What shall we pray, this Glad New But this, that Happy We Each in his part may Happy make These holy regions three; Which be one's own, then neighborhood, And then the world away; Mayhap at last--sweet mystic bond!---All worlds in God that play.

J. V. BLAKE

Aspects, Holidays, Heights of High Water, etc. 1st S. af. Chris. Circumcision. \\\ \frac{9.1}{9.5} Tides $\begin{cases} 8.9 \\ 8.8 \end{cases}$ Con Eq. Westerly $Tides \begin{cases} 8.7 \\ 8.3 \end{cases}$ Tu. ⊕in Per. winds,Tides \ 8.6 **ბ © €.** cool.Steamer San Francisco sank, Tides \ 8.5 \ 7.4 Epiphany. (in Apogee. Sa. \$ in 83. Tides $\begin{cases} 8.6 \\ 7.3 \end{cases}$ lst S. af. Ep. 21 Stat. $|\mathbf{M}|$ Tuns high. □ ૽ ⊙. Gr.Hel. Tides {9.1 dium of the "Blue Sky" laws, Francis S. Key, author of Star Tides {9.4 administered by a state depart-spangled Banner, died, 1843. Tides {8.0 ment with headquarters at the Tides $\left\{\frac{9.6}{-}\right\}$ 12|Th January Tides $\begin{cases} 8.3 \\ 9.7 \end{cases}$ 13 Fr. thaw. 14 Sa. Tides $\begin{cases} 8.5 \\ 9.7 \end{cases}$ 2d S. af. Epíp. SΨ... $\mathfrak{C}_{\mathrm{Eq.}}^{\mathrm{on}}$ 63 \mathfrak{C} . 64 \mathfrak{A} . Tides $\{9.5,5,5\}$ Tides $\begin{cases} 9.2 \\ 9.2 \end{cases}$ Tu. Signs of \$\times \in Aphelion. Tides \bigle\{ \frac{9.4}{8.9} \ snow \end{array} 18 W. Presidential Succession 8.5 followed 8.6 followed Law passed, 1886. David Garrick, famous actor, died, 1779. Tides $\begin{cases} 9.6 \\ 8.4 \end{cases}$ by& Stat. Tides \\ 8.3 sudden cold. proved by this department. 21|Sa. 30 S. af. Epíp. Cin Per. (10.0) Tides { 10.2 C runs low. Tides $\begin{cases} 10.5 \\ 8.9 \end{cases}$ 24 Tu. 6 9 C. 25 W. Conversion of St. Paul. ბ ზ⊙. Tides $\left\{\frac{-}{10.6}\right\}$ Snow. First train passed over Panama railroad, 1855. Tides $\begin{cases} 9.5 \\ 10.8 \end{cases}$ ${9.5 \atop 9.9}$ C eq. 4th S. af. Epíp. Tides $\begin{cases} 9.3\\ 9.8 \end{cases}$ M. Clear and

Tides $\begin{cases} 9.1 \\ 8.7 \end{cases}$

Tu.

d ô €.

Farmer's Calendar.

Safeguard Your Savings

Before you invest-investi-This gate. epitomizes soundest advice to be given the prospective investor. The stock salesman who contacts paints the brightest picture possible, but he tells you but one side of the story. In your (8.7 investigation, the 8-17.4 has provided you every aid, ment with headquarters at the state capital and branches in all the large cities. This efficient agency is at your disposal, ready to advise you on any security offered you for sale.

Every salesman must have a license from this department. Ask him to produce it. If he can't, show him the door. Ιf he can, then the stock issue he is selling must itself be ap-Check this before you pay any Beware also of the money. salesman who exhibits a license from another state. He may be trustworthy, but if he is, he δ \(\frac{10.7}{9.2}\) should not object to your asking him to produce evidence that his issue is approved by your own state department. Do not hesitate to inquire of your own officials as to his standing.

JOSEPH J. HURLEY, Professor Boston College Law School; Legal Advisor, Old Farmer's Almanac. cold.

1933]

FEBRUARY, SECOND MONTH.

ASTRONOMICAL CALCULATIONS.

i	Days	d.	m.	Days.	d.	m.	Days.	d.	m.	Days.	d.	m.	Days.	d.	m.
Declination	1	17s			15	17	13		20	19	11	16	25	_	04
clin	$\frac{2}{3}$	$\frac{16}{16}$	$\frac{48}{30}$	-	14 14	59 39	$\begin{array}{c c} 14 \\ 15 \end{array}$		$\frac{00}{40}$	$\begin{array}{c c} 20 \\ 21 \end{array}$	$\begin{array}{ c c }\hline 10\\10\\ \end{array}$	54 32	$\begin{bmatrix} 26 \\ 27 \end{bmatrix}$		42 19
	_	16 15	$\frac{13}{54}$		14 14	$\frac{20}{00}$	$\frac{16}{17}$	12 11	19 58	$\begin{bmatrix} 22 \\ 23 \end{bmatrix}$	10	11 49	28	7	57
©'s	6_	15	36		13		18	11	$\frac{33}{37}$	$\begin{bmatrix} 23 \\ 24 \end{bmatrix}$	-	27			

- D First Quarter, 2nd day, 8h. 16m., morning, E.
- O Full Moon, 10th day, 8h. 0m., morning, W.
- New Moon, 24th day, 7h. 44m., morning, E.

v of !	Year.	Day of Month.	Day of the Week.	n.	0)		Len of D	gth		ay's	Sun Fast.	Moon's	Full	Sea,	D 's				
Da	×.	Mo	Da	h.	ses.	se h.	m.		m.	h.	m.	m.	Mo	h.	Even	Place	h.	us. m.	Sou h.	m.
3		1	W.	6	58	4	58	10	0	0	56	2	7	$3\frac{3}{4}$	4	Tau	mo	rn	5	5
3		2	Th.	6	57	4	59	10	-2	0	58	2	8	$4\frac{1}{2}$	5	Tau	0	31	5	50
	4	3	Fr.		56	5	1	10	5	1	1	2	9	$5\frac{1}{4}$	$5\frac{3}{4}$	Tau	1	36	6	37
3		4	Sa.		55	5	2	10	7	1	3	2	10	$6\frac{1}{4}$	$6\frac{3}{4}$	G'm	2	38	7	27
	6	5	S.		54	5	3	10	9	1	5	2	11	7	$7\frac{3}{4}$	G'm	3	39	8	19
3		6	M.		53	5	5	10	12	1	8	2	12	8	81/2	Cnc	4	33	9	12
3	8	7	Tu.		52	5	6	10	14	1	10	1	13	$8\frac{3}{4}$	$9\frac{1}{2}$	Cnc	5	20	10	4
3		8	W.	V	50	5	7	10	17	1	13	1	14	91/9	10	Cnc	5	59	10	55
4	0	9	Th.	1	49	5	8	10	19	1	15	1	15	$10\frac{1}{4}$	$10\frac{3}{4}$	Leo	6	32	11	45
4	Ι	10	Fr.	1	48		10	10	22	1	18	1	0	11	$11\frac{1}{2}$	Leo	ris		mo	orn
4	2	11			47		11	10	24	1	20	1	17	113	_	Vir	6	39	0	32
4	3	12		1	45	5		10	27	1	23	1	18	0	$0\frac{1}{4}$	Vir	7	50	1	18
4	4		M.		44			10	30	1	26	1	19	$0\frac{3}{4}$	1	Lib	9	03	2	4
4	5	i .			43		15		32	1	28	1	20	$1\frac{1}{2}$		Lib	10	17	2	50
4	6	15			41		16		35	1	31	1	21	$2\frac{1}{4}$		Sco	11	34	3	39
4		16	Th.		40		17	10	37	1	33	2	22	3	$3\frac{1}{2}$	Sco	me	orn	4	31
4	8		Fr.	6				10	40	1	36	2	23	4	$4\frac{1}{2}$	Sgr	0	51	5	27
4	9		Sa.		37			10	43		39	2	24	5	$5\frac{3}{4}$	Sgr	2	07	6	27
5	0	19	S.	6				10	45		41	2	25	6	$6\frac{3}{4}$	Sgr	3	17	7	30
5	I	20	M.	1	34			10	49	1	45	2	26	$7\frac{1}{4}$	8	Cap	4	17	8	32
5	2	21	Tu.		33			10	51	1	47	2	27	$8\frac{1}{4}$	9	Cap	5	05	9	32
5	3	22	W.		31			10	54		50	2	28	$9\frac{1}{4}$	$9\frac{3}{4}$	Aqr	5	41	10	28
5	4	23	Th.	-	-		26		56	1	52	2	29	10	$10\frac{3}{4}$	Aqr	6	10	11	19
5		24	$\operatorname*{Fr.}$		28		28		0	1	56	2		11	$11\frac{1}{2}$	Psc	se		0	6
J	6	$\frac{25}{25}$	Sa.				29		2	1	58	3	1	$11\frac{3}{4}$	-	Psc	6	58	0	50
5	7	26	S.		25		30	11	5	2	1	3	2	$0\frac{1}{4}$	$0\frac{1}{2}$	Ari	8	04	1	33
5	8	$\frac{27}{27}$	M.		24		31		7	2	3	3	3	1	$1\frac{1}{4}$	Ari	9	10	2	15
5	9	28	Tu.	6	22	5	33	11	11	2	7	3	4	$1\frac{1}{2}$	2	Ari	10	15	2	58



... Came cold February, sitting
In an old wagon, for he could not ride,
Drawn of two fishes, for the season fitting.
Which through the flood before did softly slide
And swim away; yet had he by his side
His plough and harness fit to till the ground,
And tools to prune the trees, before the pride
Of hasting Prime did make them bourgeon round.
EDMUND SPENSER,

-"The Faerie Queene"

I			_
D.M.	D.W.	Aspects, Holidays, Heights of High Water, etc.	
1	īW.		Ī
	Th.	Purification of Virgin Mary, Tides \ 8.6	
	Fr.	Cin Apogee. \{\frac{8.4}{7.2} Blustering}	l
	Sa.	Tides $\begin{cases} 8.3 \\ 7.0 \end{cases}$ winds,	
5	Δ	5th S. after Epip. Cruns (8.3	l
	M.	Tides $\begin{cases} 8.5 \\ 7.2 \end{cases}$ snow flurries.	l
7	Tu.	X Gr. Hel.	l
8	W.	Confederate States of America form (9.1)	
_	Th.	Naval engagement between Con-	
	Fr.	stellation and Insurgent, 1799. $\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	
	Sa.	δΨ α · {9.8 [12th. δμ α .	ì
	A	C C 100 111 (92	
1	M.	Sep. Sun. Con dd. \{9.9\}.	
	Tu.	(3.0	
	W.	U + C (0.0	
1	Th.	an Aphenon,	
1	Fr.	Fort Donelson to Grant, 1862. 11des (8.8)	
		1564 - 11405 18 4	
	Sa.	(in Per. Tides \\ 9.6 Weather \\ 5.r \square \tau \text{runs } \\ 9.5 moderates	ľ
1	A	10w. \8.0 moderaces,	l
	M.	hy earthquake 1885 181 /65//6	
	Tu.	Mass., 1676. 8.5 winds.	l
	W.	δ λ C. Tides (10.0 8.9	
	Th.	Indians attack Medfield, $\{9.8\}$ winds. Mass., 1676. Tides $\{10.2\}$ $\{9.3\}$ Winds. Annular Eclipse, 10.3	
	Fr.	ot. matthias. Oinvisible in N. E. 1 9.6	l
	Sa.	$\mathbb{C}_{\mathrm{Eq.}}^{\mathrm{on}}$ 6 \mathbb{Q} \mathbb{C} $\mathbb{C}_{\mathrm{Eq.}}^{\mathrm{10.2}}$ Expect	
1	A	Quinqua. S. & in Q. \ \frac{9.7}{10.0} rain	
1	М.	βΨΟ. Tides {9.7 or sleet.	
28	Tu.	Shrobe Tues. 6 & C. $\{^{9.6}_{9.1}$	

Farmer's Calendar.

Timely Hints for The Farmer's Wife

Melons should not have ice placed on the edible portion. They should be cooled either by setting them on a bed of ice or by placing in the refrigerator. If they are wrapped in wax paper the odor and taste will not permeate other foods.

When two glass vessels get stuck together, so that there is danger of breaking them in getting them apart, put cold water in the inner one, and hold the outer one in warm water and you will find that they will separate at once.

When the elbows of children's sweaters begin to wear thin, if the sleeves are carefully ripped out at the shoulders and the sleeves changed, the right one to the left arm and vice versa, the worn part will come in the hollow of the elbow and make the sleeves

wear just twice as long.

To improve the flavor of your meat gravies, add the water in which the potatoes have been boiled. If the water contains salt, your gravy will not need to be salted again.

An unusual yet very effective use for kitchen shears is in shredding lettuce for salads. The outside, less attractive leaves can be served shredded.

193	3]			MA	R	СH,	Тнг	RD	Me	ONTH.					
			A	STRO	NO	MIC	CAL C	AL	CUI	ATIO	NS.				
l i	Days.	d.	m.	Days.	d.	m.	Days.	d.	m.	Days.	d.	m.	Days.	d.	m.
Declination	1	7s.	34	7	ō	15	13	2	54	19	0	32	25	1	50
ina	2	7	11	8	4	52	14	2	31	20	0s	. 9	26	2	13
ecl	3	6	48	9	4	29	15	2	07	21		.15	27	-	37
1	4	6	25	10	4	05	16	1	43	22	0	39	28	3	00
o,s	5	6	$\frac{02}{2}$	11	3	42	17	1	$\frac{20}{20}$	23	1	02	29	_	24
9	6	5	39	12	3	18	18	0_	56	24	1	26	30	3	47

- D First Quarter, 4th day, 5h. 23m., morning, W.
- O Full Moon, 11th day, 9h. 46m., evening, E.
- C Last Quarter, 18th day, 4h. 5m., evening, W.
- New Moon, 25th day, 10h. 20m., evening, W.

Day of Year.	Day of Month.	Day of the Week.		tises.		ets.	of I	ngth Days	. 1	ay's Incr.	$ \tilde{\mathbf{z}}_{z}^{\Xi}$	Moon's	Mon	l Sea, ston.) 's	Se		Sou	ths.
		<u>. </u>	h.		_	m.	·	m.	$\frac{ \mathbf{h}_i }{ \mathbf{\Omega} }$. m.	2		h.	Place		m.	h.	m.
60	$\frac{1}{2}$	W.	6	20		34	11	14	$\frac{2}{2}$	10	3		7		Tau		21	3	43
61	2	Th.	6		5	0.0	11	16	2	12	3			$\frac{3\frac{1}{2}}{1}$	Tau		orn	4	29
62	0	Fr.	6	17	5	0 0	11	$\frac{19}{21}$	$\frac{2}{2}$	15	4		$\frac{3\frac{3}{4}}{41}$		G'm	0	25	-	18
63	4	Sa.	6		5		11			17	4	8	$4\frac{1}{2}$				27	6	09
64	5)- M		14	5	39		25		21	4	9	$5\frac{1}{2}$				23		01
65	0	M.	6		5		11	28		24	4	10	$6\frac{1}{2}$	$\frac{7}{2}$	Cnc	3	13	7	53
66	$\frac{7}{9}$	Tu.	6	11	5		11	30		26	5	11	74	8	Cnc	3	55	8	45
67	8	W.	6	9	5	42		33		29	5	12	$8\frac{1}{4}$		Leo	4	29	9	35
68	9	Th.	6	7	5		11	36		32	5	13	9	$9\frac{1}{2}$	Leo	4	59	10	23
69	10	Fr.	6	6	5		11	38		34	5	14	$9\frac{3}{4}$		Vir	5	24	11	10
70	11	Sa.	6		5	46		42		38	6	0	$10\frac{1}{2}$		Vir	ris		11	56
7 T	12	S.	6	2	5		11	45		41	6	16	111		Vir		45	mo	orn
72	13	M.	6	0	5	4.8		48	4	44	6	17		0	Lib	8	01	0	44
73	14	Tu.	5	59	5	49		50		46	6	18	$0\frac{1}{4}$		Lib	9	19	1	33
74	15	W.	5	57	5	50	11	53	$\frac{2}{2}$	49	7	19	1	$1\frac{1}{2}$	Sco		40	2	25
75	16	Th.	5				11	56	2	52	7	20	$1\frac{3}{4}$	$2\frac{1}{2}$	Sco	11	58	3	21
76	17	Fr.	5	53			12	0	$\frac{2}{2}$	56	7	21	$2\frac{3}{4}$	$3\frac{1}{4}$	Sgr	\mathbf{m}	rn	4	21
77	18	Sa.	5	52	5	54	J.	2	2	58	8	22	$3\frac{3}{4}$	$ 4\frac{1}{4} $	Sgr		10	5	24
78	19	S.	5	50	5	55	12	5	3	1	8	23	$4\frac{3}{4}$	$5\frac{1}{2}$	Cap		13	6	26
79	20	M.	5	48		56	12	- 8	3	4	8	24	$5\frac{3}{4}$	$6\frac{1}{2}$	Cap	3	02	7	26
80	21	Tu.	5	47	5	57	12	10	3	6	8	25	7	73	Aqr	3	42	8	22
81	22	W.	5	45			12	13	3	9	9	26	8	$8\frac{3}{4}$	Aqr	4.	12	9	13
82	23	Th.	5	43		0	12	17	3	13	9	27	9	$9\frac{1}{2}$	Psc	4	37	10	01
83	24	Fr.	5		6	1	12	20	3	16	9	28	9_{4}^{3}	104	Psc	4	58	10	45
84		Sa.	5	40		2	12		3		10		10출	11	Ari	set	ts	11	28
85	26	S.	5	38		3	12		3	21	10	1	$11\frac{1}{2}$	$11\frac{3}{4}$	Ari	6	54	0	10
86	27	M.	5	36		4	12		3	24	10	2		0	Ari	8	00	0	52
87	28	Tu.	5	34		5	12		3	27	11	3	$0\frac{1}{4}$	$0\frac{3}{4}$	Tau	9	06	.1	36
88	29	W.		33		6	12		3		11	4	1	$1\frac{1}{2}$	Tau	10	11	2	22
09	30	Th.					12	36			11	5	$1\frac{1}{2}$	2			14		10
90	31	Fr.	5	29	6	9	12	40	3	36	11	6	$2\frac{1}{4}$		G'm	mo:	rn		00

MARCH hath 31 days.



The stormy March is come at last,
With wind, and cloud, and changing skies;
I hear the rushing of the blast
That through the snowy valley flies.
Ah, passing few are they who speak,
Wild, stormy month, in praise of thee;
Yet though thy winds are loud and bleak,
Thou art a welcome month to me.

Tides $\begin{cases} 9.2 \\ 8.0 \end{cases}$

WILLIAM CULLEN BRYANT

Г1933

D.M.	D.W.	Aspects, Holidays, Heights of High Water, etc.
1	W.	Ash TCHed. St. David, Tides ${9.3 \atop 8.5}$
	Th.	$\begin{cases} 9.0 \\ 8.0 \end{cases}$ [1st. 8 \odot O. Q in Aph.
	Fr.	C in Apo. & in Per. Tides \87
4	Sa.	Pres. of the U. S. \{8.4\{7.2\}\} 3d. \(\frac{3}{2}\) nearest
5	, ,	Ist S. in Lent. (high \ \frac{8.2}{7.1} Look
6		$\left \stackrel{Gr. Elong.}{\underset{East}{East}} \right = \operatorname{Tides} \left\{ \substack{8.2 \\ 7.1} \ for \ Snow. \right $
7		Union, 1844. \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
8	W.	Pope Clement XI $\{8.7 \\ \text{died. 1721.} \}$ $\{8.7 \\ \text{moderates.}\}$
9	Th.	8 4 O. Tides \{\frac{9.1}{8.4} probably
10	Fr.	Tides $\begin{cases} 9.5 \\ 9.0 \end{cases}$ a thaw.
11	Sa.	δ3Ψ· δ3 C · δΨ C , δ 4 C . {9.8 9.6
12	/	2n v S. in Lent. Con Eq. (10.0)
	$ \mathbf{M}. $	$\forall \text{Stat.} \forall \text{Gr. Hel.} \text{Tides } \{\frac{-}{10.0} \mid$
14	Tu.	Tides $\binom{10.4}{9.9}$ $Cold$,
15	1 , , ,	In Peri. Tides 3 9.6 westerly
16		Military institution established at West Point, 1802. 10.5
17		St. Patrick. Tides $\{^{10.2}_{8.7} winds, \mid$
18	Sa.	$ $ C runs low. Tides $\{^{9.8}_{8.3} bright $
19	Α	30 S. in Lent. Tides $\begin{cases} 9.5 \\ 8.0 \end{cases}$ sun.
20		Oenters Y Spring Tides (9.3)
21		St. Benedict. $\mathcal{S} \ \mathcal{C} \cdot \ _{\text{Tides}}^{9.3}$
22		Massacre of 347 Colonists by the Indians, 1622. Tides ${9.4 \atop 8.7}$
23	Th.	d ♥ ⊙ Inferior. Tides (9.6)
	Fr.	$\left[\begin{array}{ccc} Q & \text{Gr. Hel.} \\ \text{Lat. S.} \end{array}\right]_{9.5}^{9.7} Rain \ or \ snow, \left[\begin{array}{ccc} Q & \text{Gr. Hel.} \\ \text{S.} \end{array}\right]_{9.5}^{9.7}$
	Sa.	Annunc. or Con Eq. 6 9 (. \ 8.8
26	Α	4th\$.in L ent. (%.5[6♥C.6₽♥.
27	M.	ර \odot \bigcirc Tides $\left\{\overline{9.5}\right\}$
28	Tu.	Planet Pallas discovered, 1802. Tides \{9.8 \\ 9.2
29	W.	Gen. Foch made commander-in-chief 9.7 of allied forces, 1918. 8.8
30	Th.	Tides ${9.5 \atop 8.4}$ $Colder$.

31 Fr. (in Apogee.

Farmer's Calendar.

Precautions in Buying Seed

In these days of close margins of profit for the farmer, unusual care should be taken in buying only the best quality of seeds. It is poor economy to buy any kind of seed just because it is cheap. Frequently seeds are offered at a low price because they are old or because of impurities of weeds, dirt and chaff.

The following five precautions should be observed:—

- 1. Insist on a statement of the percentage of germination and of the date when the test was made. Some seeds deteriorate rapidly in vitality if not properly stored.
- 2. Be sure that the seed is not below the usual standard of purity for that particular kind.
- 3. As a rule, buy only those seeds which you know are adapted to your locality. It in doubt, get the advice of your state experiment station.
- 4. If you have any reason to suspect that the seed you buy is not as represented as to purity and vitality, send a sample to your experiment station for testing.
- 5. Always beware of seed offered at abnormally low prices. Be certain of the quality before buying.

19337

APRIL, FOURTH MONTH.

ASTRONOMICAL CALCULATIONS.

i.	Days.	d.	m.	Days.	d.	m.	Days.	d.	m.	Days.	d.	m.	Days.	d.	m.
Declination	1	4 N	.33	7	6	51	13	9	4	19	11	11	25	13	12
ina	2	4	58	8	7	13	14	9	25	20	11	32	26	13	32
cli	3	5	20	9	7	35	15	9	47	21	11	52	27	13	51
De	4	5	42	10	7	58	16	10	8	22	12	13	28	14	10
ŝ	5	6	05	11	8	20	17	10	29	23	12	33	29	14	29
Ö	6	6	28	12	8	42	18	10	50	24	12	52	30	14	47

- D First Quarter, 3rd day, 0h. 56m., morning, W.
- O Full Moon, 10th day, 8h. 38m., morning, W.
- New Moon, 24th day, 1h. 38m., evening, W.

Day of Year.	Day of Month.	Day of the Week.		()	,	Ler	ngth Days.	D	ay's	Sun Fast.	Moon's	Full	Sea, ton. Even) 's		D		D
Day	Mo	Da t	h.	m.	h.	ets. m.		m.			m.	Mo	Morn h	Even	Place	Se h.	ts. m.		uths m.
91	1	Sa.								39	12	7	3	$3\frac{3}{4}$	G'm	0	13	4	$\overline{52}$
92	2	S.	5	26		11				41	12	8	4		Cnc	1	05	5	43
93	3	М.		24		12					12	9	$4\frac{3}{4}$	_	Cnc	1	50	6	34
94	4	Tu.		- 1						47				-	Leo	2	27	7	24
95		W.		21		14			1	49			$6\frac{3}{4}$		Leo	2	58		12
96		Th.								52			$7\frac{1}{2}$		Leo	3	24	8	59
97	$\frac{7}{2}$	$\operatorname*{Fr.}_{\widetilde{\sim}}$		- 1		16		59		55			$8\frac{1}{2}$	9	Vir	J	47	9	45
98		Sa.				18			3				$9\frac{1}{4}$	_	Vir		09		32
99	9	S.				19			4		14		10		Lib		31	11	21
100						20			4		14	_	$10\frac{3}{4}$	11	Lib	ris			orn
101		Tu.						10			15		$11\frac{3}{4}$		Sco		$\frac{17}{2}$		13
		W.	5			22					15		0		Sco		39		10
		Th.								12			03	14	Sgr		57	2	10
		Fr.	5	6				18		14			$\frac{1\frac{1}{2}}{2}$	24	Sgr	mo			14
		Sa.	5		6	$\frac{25}{27}$				17			$\frac{2\frac{1}{2}}{2}$		Cap		05		18
		S.	5		6					21			$3\frac{1}{2}$			i	00	$\frac{5}{2}$	
107		Tu.	1 -							$\frac{23}{26}$			$4\frac{1}{2}$		Aqr	1	43	1	18
		W.								28			$\frac{5\frac{1}{2}}{63}$		Aqr	$\frac{2}{2}$	16	7	11
		Th.											- 3		Psc		42	7	59
										33			7 3 8 3 8 3		Psc	3	04	8	44
		Sa.											$9\frac{1}{2}$		Psc		2443	9	$\frac{26}{9}$
		S.											$10\frac{1}{4}$	101	Ari		02	10	$\frac{08}{50}$
		M.											11	_	Ari Tau			10 11	50
		Tu.											$11\frac{1}{2}$				00		33 18
		W.													Tau		03	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	05
117												3	01	$1 \frac{0}{4}$	G'm				54
		Fr.										4	1		G'm			1	
	1	Sa.	V.									5	$1\frac{3}{4}$		Cnc				
		S.								57	19	6	$\frac{1}{2\frac{1}{2}}$		Cnc			4	$\frac{30}{27}$
									1				- 2	- 4	-				

APRIL hath 30 days.

[1933]



April is here! Blithest season of all the year. The little brook laughs as it leaps away; The lambs are out on the hills at play; The warm south wind sings, the whole day long, The merriest kind of a wordless song. Gladness is born of the April weather, And the heart is as light as a wind-tossed feather.

MARY I. LOVEJOY

Aspects, Holidays, Heights of High Water, Etc. Ä. 1 Sa. | Cruns high. Traces $\frac{8.8}{7.6}$ 5th S. in Lent. Washington Irving born, 1783. Tides $\begin{cases} 8.8 \\ 7.3 \end{cases}$ |M.Tides $\begin{cases} 8.3 \\ 7.5 \end{cases}$ ♥ Stationary. Tides ${8.5 \atop 7.8}$ W. ğin %. 6 Th. 3 3 €. Tides $\begin{cases} 8.8 \\ 8.4 \end{cases}$ δΨ C. δ 4 C. (9.1 Southerly destroys. It is relentless. It 8 Sa. on Equator. \(\begin{cases} \frac{9.5}{9.7} & followed \text{ It is one of our worst enemies.} \end{cases} \) Tides $\begin{cases} 9.8 \\ 10.3 \end{cases}$ Palm Sunday. Tides $\begin{cases} 10.0 \\ 10.8 \end{cases}$ 10 M. Peace of Utrecht, 11 Tu. C in Perigee. 13 Th. & Stationary. & ⊕ ⊙. Good Friday. Cruns low. \(\begin{cases} \) \(\) \\ \ \) repairs for buildings or equipment is a costly practice. Ma-15 Sa. 69 . {\begin{aligned} \chinery \ \text{8.8} \end{aligned} \chinery \ \text{chinery which is housed lasts} \end{aligned} Easter Sun. & in Aph. Benjamin Franklin died, 1790. 17|M.18 Tu. ሪ ካ **(** ⋅ . . Tides ${9.0 \atop 8.6}$ 19 W. days.20 Th. & Gr. Elong. Tides $\begin{cases} 9.0 \\ 9.0 \end{cases}$ on Eq. კბ ⊙ Sup. Tides $\begin{cases} 9.1 \\ 9.6 \end{cases}$ δ ¥ **C**. Low Sunday. St. George. $[23^{d}]$ 24 M. 68 C. 8 Q. Tides $\begin{cases} 9.0 \\ 9.9 \end{cases}$ 25 Tu. St. Mark. Last Confederate Army $\{\frac{1}{8.8} \text{ northerly}\}$ (in Apogee. Tides \{ \frac{9.7}{8.5} \ winds, \text{ reials, poisons for rodents,} \] $27|\mathrm{Th.}|$ James Monroe Tides $\begin{cases} 9.3 \\ 8.0 \end{cases}$ 29|Sa. 30 A

Farmer's Calendar.

Carelessness. Does it Pay? Tides \{8.5 \quad \text{What is more positive} \} \text{armies and more destructive} \text{? In our Raw, than high explosives? with country there is something which steals millions of dolsome lars each year. It brings sickrain, ness. It maims, crushes, and gives nothing, but takes all. by It is everywhere, on the street, in the factory, and in the northerly winds. home. It exacts a tremendous Tides $\{10.0 \text{ toll on the farm. It is a mon-}$ Tides {11.1 ster of frightful mein. name is CARELESSNESS. . {11.1 } the postponement of nee

The postponement of needed \{\frac{9.9}{8.4}\} twice as long as that which is Tides (9.5) exposed to the weather.

[8.3] ing and oiling of farm impleexposed to the weather. Clean-Tides $\begin{cases} 9.2 \\ 8.4 \end{cases}$ Springlike ments prolongs their useful-Neglected fences and ness. straying animals ruin promising crops. Fire hazards always {9.1 constitute a disturbing uncertainty. Even during prosperous times bankers were reluctant $\begin{cases} 9.1 \\ 9.8 \end{cases}$ to extend assistance gross carelessness prevailed.

Poisonings of farm animals Cool are numerous and in many instances are due to carelessness and indifference. Spraying ma-followed by used in such a way as not to tainers should be stored and 2d Sun. af. Easter. \(\begin{cases} \begin{cases} \text{9.0} \\ \text{7.8} & rain. \expose animals to them. \expose \text{asses} \expose \text{asses} \text{asses} \expose \text{asses} \te

MAY, FIFTH MONTH.

1933]

ASTRONOMICAL CALCULATIONS.

ġ	Days.	d.	m.	Days.	d.	m.	Days.	d.	m.	Days.	d.	m.	Days.	d.	m.
Declination	1	15N	5	7	16	50	13	18	24	19	19	47	25	20	58
ma	2	15	23	8	17	6	14	18	38	20	19	59	26	21	8
cli	3	15	41	9	17	22	15	18	53	21	20	12	27	21	18
De	4	15	59	10	17	38	16	19	7	22	20	24	28	21	28
on l	5	16	16	11	17	53	17	19	20	23	20	35	29	21	38
Θ	6	16	33	12	18	9	18	19	34	24	20	47	30	21	47

- D First Quarter, 2nd day, 5h. 39m., evening, E.
- O Full Moon, 9th day, 5h. 4m., evening, E.
- C Last Quarter, 16th day, 7h. 50m., morning, W.
- New Moon, 24th day, 5h. 7m., morning, E.

-	***		÷				, -			,		(40)	,	~					
Day of Year.	y of	Day of the Week.		. ()		Let	ngth Days.	Ę	ay's ner.	ast.	on's	Full Bos Morn h.	ston.	D's		D		D
Day	Da	Da.	h.	$_{ m m}_{ m m}$	h.	ets. m.	h.	m.	h.	m.	m.	Mo	h.	h.	Place	h.	$^{ m ets.}$		uths. m.
121		M.	4	40	6	43	14	3	4	59			$ 3\frac{1}{4}$	4	Cnc	0	24	5	16
122	2	Tu.	4	39	6	44	14	5	5	1	19	8			Leo	0	57	6	04
123	3	W.	4	37	6	46	14	9	5	5	19	9	5	$5\frac{3}{4}$	Leo	1	24	6	50
124	4	Th.	4	36	6	47	14	11	5	7	19	10	6	$6\frac{1}{2}$	Vir	1	48	7	35
125	5	Fr.	4	35	6	48	14	13	5	9	19	11	7	$7\frac{1}{2}$	Vir	2	09	8	21
126	6	Sa.	4	33	6	49	14	16	5	12	19	12	$7\frac{3}{4}$	81/4	Lib	2	31	9	08
127	7	S.	4	32	6	50	14	18	5	14	19	13		9	Lib	2	53	9	58
128	8	M.	4	31	6	51	14	20	5	16	19	14	91	$9\frac{3}{4}$	Sco	3	18	10	52
129	9	Tu.	4	30	6	52	14	22	5	18	19	0	$10\frac{1}{2}$		Sco	ris	es	11	51
130	10	W.	4	29	6	53	14	24	5	20	19	16			Sgr	8	33	mo	orn
131	11	Th.	4	27	6	54	14	27	5	23			_	$0\frac{\tilde{1}}{4}$		9	48	0	56
132	12	Fr.	4	26	6	55	14	29	5	25			$0\frac{1}{4}$	1	Cap	10	51	2	03
		Sa.											14	2	Cap	11	39	3	08
134	14	S.	4	24	6	57	14	33	5	29	20	20	$2rac{1}{4}$	3	Agr	mo	rn	4	10
		M.	4	23	6	58	14	35	5	31	20	21	$3\frac{1}{4}$	4	Aqr	0	17	5	06
		Tu.				59	14	37	5	33	20	22	$4\frac{1}{4}$	5	Aqr	0	45		56
		W.						39					$5\frac{1}{4}$	6	Psc	1	08	6	42
		Th.						41					$6\frac{1}{2}$	7	Psc	1	29	7	26
				19		2	14	43	5	39	19	25	$7\frac{1}{2}$	8	Ari	1	49	8	07
		Sa.				3	14	45	5	41	19	26	$8\frac{1}{4}$	$8\frac{3}{4}$	Ari	2	08	8	49
		S.						47					$9\frac{1}{4}$	$9\frac{1}{4}$	Tau	2	29	9	31
		М.						48					$9\frac{3}{4}$	10	Tau	2	51	10	15
		Tu.						50					$10\frac{1}{2}$	10골	Tau	3	19	11	01
		W.						52				0	$11\frac{1}{4}$	114	G'm	set	ts	11	50
		Th.						54				1	$11\frac{3}{4}$		G'm	8	52	0	40
		Fr.						55		51		2	0	$0\frac{1}{2}$	G'm	9 .	42	1	32
		Sa.						57				3	$0\frac{1}{2}$		Cnc	10	23	2	23
		S.						59		7		4	$1\frac{1}{4}$		Cnc				12
		M.				12				56		5	2^{-}	$2\frac{3}{4}$	Leo	11 :	26		00
		Tu.								58		6	$2\frac{3}{4}$		Leo			4	45
151	31	W.	4	11	7	13	15	2	5	58	18	7	$3\frac{1}{2}$	$4\frac{1}{4}$	Vir	mo	rn	5	29
								_									_		

MAY hath 31 days.



When the south wind, in May days, With a net of shining haze Silvers the horizon wall, And, with softness touching all, Tints the human countenance With a color of romance,

And, infusing subtle heats,
Turns the sod to violets,
Thou, in sunny solitudes,
Rover of the underwoods,
The green silence dost displace
With thy mellow, breezy bass,
HENRY WADSWORTH LONGFELLOW.

 $\Gamma 1933$

Tu. Columbus discovered island of Jamaica, 1494. W. Alliance, 1915 Fr. Alliance, 1915 Fr. Alliance, 1915 Fr. Alliance, 1916 Sa. Tides \(\frac{8.8}{8.8} \) Some days. Gon Eq. \(\frac{9.1}{10.3} \) Eath. \(\frac{9.4}{10.3} \) Columbus discovered island of Jamaica, 1494. Th. Alliance, 1915 Fr. Alliance, 1915 Fr. Alliance, 1915 Fr. Alliance, 1915 Fr. Alliance, 1915 Tides \(\frac{8.8}{8.8} \) Some days. Gon Eq. \(\frac{9.1}{10.3} \) Eath. \(\frac{9.4}{9.6} \) Gon. \(\frac{9.1}{9.1} \) the rapid private tresponsite	D. M.	D.W.	Aspects, Holidays, Heights of High Water, etc.	Far
2 Tu. 3 W. 4 Th. 5 Fr. 6 Sa. 6 Sa. 6 Sa. 6 Sa. 6 Sa. 7 A Sa. 8 A Sa. 9	1	M.	St. Philip & St. James. Tides \{8.8	A. N
4 Th. 4 Th. 5 Fr. 6 Sa. Con Eq. & Gr. Hel. 9 Tu. 1846. 100 W. 11 Th. 1846. 1950. 100 W. 11 Th. 1846. 1960. 1971. 19 Fr. 19 Fr. 19 Fr. 10 W. 11 Th. 11 Th. 12 Fr. 13 Sa. 14 A 15 A 16 A 17 A 18 M. 19 Fr. 10 W. 11 Th. 11 Th. 12 Fr. 13 Sa. 14 A 15 M. 16 Tu. 1607. 1608. 1608. 17 W. 17 W. 1846. 1840.	2	Tu.	Columbus discovered island (8.6)	More t
4 Th. 6 δ C. 6 Ψ C. 8.4 Some of Palos and Battle of Palo Alto, 10.3 Vortherly 1846. 10 W. 1846. 10 W. 1846. 11 Th. 1800. Cin Per. 2/Stat. Tides 11.3 amount 1800. Cin Per. 2/Stat. Tides 11.4 sownershi 1800. Cin Per. 2/Stat. Tides 11.5 amount 1800. Tides {9.8 easterly winds. 11.5 ownershi 1807. 4th S. af. Eas. 16.6 Showers 11.5 M. 6 V. Tides 18.7 followed by 16 Tu. 1829. Th. 26 Ψ. Tides 18.7 colder 1829. The Gome Equator. Tides 18.9 farmer custodian is received in the received in the first steamship to cross Atlantic 1829. Tides 8.5 Milder weather. 1829. Th. 22 M. First steamship to cross Atlantic 1829. Th. 24 W. Famous scientist, Linnaeus, 1829. The Gome Equator. Tides 8.4 series the courses, 1829. The Gome Equator. Tides 8.4 series the courses, 1829. The Gome Equator. Tides 8.4 series the courses, 1829. The Gome Equator. Tides 8.4 series the courses, 1829. The Gome Equator. Tides 8.4 series the courses, 1829. The Gome Equator. Tides 8.4 series the courses, 1829. The Gome Equator. Tides 8.4 series the courses, 1829. The Gome Equator. Tides 8.4 series the courses, 1829. The Gome Equator. Tides 8.4 series the courses, 1829. Chigh. 8.8 [2.5th. 6 Q. Variable.] series the courses, 1829. Chigh. 8.8 [2.5th. 6 Q. Variable.] series the this trip for ing factor in the station are variable.	3	W.	Italy denounced Triple Alliance 115 Tides \{8.5	
5 Fr. 6 Sa. Con Eq. \$\frac{8.8}{9.0}\$ warm days. Con Eq. \$\frac{9.1}{12.5}\$ fat. \$\frac{9.2}{12.5}\$ fat. \$\frac{9.2}{12.5}\$ for the responsition of Palo Alto, \$\frac{9.0}{10.3}\$ for the responsition of Palo Alto, \$\frac{9.0}{10.3}\$ for the responsition of Palo Alto, \$\frac{9.0}{10.3}\$ Northerly private trespass relations of Palo Alto, \$\frac{9.0}{10.3}\$ Northerly private trespass relations and also have relations from Per. \$\frac{12.5}{12.5}\$ Stat. \$\frac{11.3}{10.5}\$ to discover the private trespass relations and also have relations from Per. \$\frac{12.5}{12.5}\$ Stat. \$\frac{11.5}{10.5}\$ Nowers of the private trespass relations and also have relations from Per. \$\frac{12.5}{12.5}\$ Stat. \$\frac{10.0}{10.5}\$ Showers foundation of Jamestown, Tides \$\frac{11.4}{9.5}\$ ownershift to be first to be first to be first to private trespass relations and also have relations from Per. \$\frac{12.5}{12.5}\$ Stat. \$\frac{10.0}{8.7}\$ Showers foundation of Jamestown, Tides \$\frac{11.4}{9.5}\$ ownershift to be first to be first to private treespass relations and also have relations from Per. \$\frac{12.5}{12.5}\$ Stat. \$\frac{10.0}{8.7}\$ Showers foundation of Jamestown, Tides \$\frac{11.4}{9.5}\$ Showers foundation of Jamestown, Tides \$\frac{8.8}{9.5}\$ Showers foundation of Jamestown, Tides \$\frac{8.8}{9.5}\$ Showers foundation of Jamestown, Tides \$\frac{8.8}{8.9}\$			\mathcal{L}	property
The sponsor of the response of the rapid private of Palo Alto, \$\frac{9.4}{10.3} \left[6^{\text{th}} \dots \right] \right[9.7]{the rapid private trespass relations and also have amount to the private trespass relations and also have amount to the private trespass relations and also have amount to the private trespass relations and also have amount to the private trespass relations and also have amount to the private trespass relations and also have amount to the private trespass relations and also have amount to the private free pass relations and also have amount to the private free pass relations and also have amount to the private free pass relations and also have amount to the private free pass relations and also have amount to the private free pass relations and also have amount to the private free pass relations and also have amount to the private free pass relations and also have amount to the private free pass amount to the private free pass relations and also have amount to the private free pass relations and also have amount to the private free pass amount to the private free pass relations amount to the private free pass amount treatment free pass free pass amount treatment free pass free pass amount treatment free pass amount treatment free pass free pass amount treatment free pass free pass amount treatment free pass free pas	5		λ 7/ α. Tides (8.8 warm days.	large nu
7 A 8 M. 9 Tu. 10 W. 11 Th. 11 Th. 12 Fr. 13 Sa. 14 A 15 M. 16 Tu. 17 M. 18 M. 18 M. 19 Tu. 18 M. 10 W. 11 Th. 11 Th. 12 Fr. 13 Sa. 14 A 15 M. 16 Tu. 16 Tu. 16 Tu. 16 Tu. 16 Tu. 17 M. 18 M. 18 Th. 18 Th. 18 Th. 18 Th. 18 Th. 19 Fr. 19 Fr. 10 M. 11 Th. 12 Fr. 13 Sa. 14 A 15 M. 16 Tu. 17 W. 18 Th. 18 Th. 18 Th. 19 Fr. 19 Fr. 10 M. 10 M. 10 W. 11 Th. 12 Fr. 13 Sa. 14 A 15 M. 16 Tu. 16 Ju. 16 Ju. 16 Ju. 17 W. 18 Th. 18 Th. 19 Fr. 10 M. 10 M. 10 M. 10 W. 11 Th. 12 Fr. 13 Sa. 14 A 15 M. 16 Ju. 16 Ju. 16 Ju. 17 W. 18 Ju. 18 Ju			Con Eq. 8 Gr. Hel. 386. (9.1	
8 M. Battle of Palo Alto, \$\begin{cases} 9.7 Northerly 10.9 Tu. \\ 180. \\ 100 \\ \text{M.} \\ \\ \text{M.} \\ \text{Pornoconditions} \\ \text{Month born, Tides }\{\begin{cases} 9.8 \\ 10.9 \\ \text{Month born, Tides }\{\begin{cases} 9.8 \\ 10.9 \\ \text{Month born, Tides }\{\begin{cases} 9.8 \\ 10.8 \\ \text{Month born, Tides }\{\begin{cases} 9.8 \\ 9.6 \\ \text{Month born, Tides }\{\begin{cases} 9.8 \\ 9.6 \\ \text{Month born, Tides }\{\begin{cases} 9.6 \\ 8.9 \\ \text{Month born, Tides }\{\begin{cases} 8.8 \\ 8.9 \\ \text{Month born, Tides }\{\begin{cases} 9.5 \\ 9.3 \\ \text{Month born, Tides }\{\begin{cases} 9.6 \\ 9.6 \\ \text{Month born, Tides }\{\begin	20 14		3n. S. af. 3Eas. 1.94 [6th. pho.	private
10 W. (in Per. Letter 11.3) also have also ha			Battle of Palo Alto, § 9.7 Northerly	trespas
10 W. 11 Th. Tides {\(\begin{array}{l} \) \) \(\text{Tides} \\ \begin{array}{l} \) \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\			John Brown born, Tides § 9.8 to	1.0
11 Th. 12 Fr. (runs low. Tides {11.4			7 in Per 7/ Stat. Tides 5 9.9	also have
The ownership of Jamestown, Tides \$\{\frac{11.4}{9.6}\} \text{Trues formation of Jamestown, Tides \$\{\frac{11.4}{9.6}\}				
13 Sa. Foundation of Jamestown, Tides {11.1 lower Shi to be find				The r
14 A 15 M. 16 Tu. 16 Tu. 17 W. 18 Th. 19 Fr. 20 Sa. 21 A 22 M. 23 Tu. 24 W. 25 Th. 26 Fr. 27 Sa. 18 Th. 19 Fr. 20 Sa. 21 A 22 M. 23 Tu. 24 W. 25 Th. 26 Fr. 27 Sa. 18 Th. 19 Fr. 20 Sa. 100.			Foundation of Jamestown, Tides \ \(\frac{9.6}{11.1} \)	ownershi
15 M. 16 Tu. 17 W. 18 Th. 19 Fr. 20 Sa. 11 Karmer farmer fa		1	1607.	
16 Tu. 17 W. John Jay died, 18 Th. 19 Fr. 20 Sa. 21 A 22 M. 23 Tu. 24 W. 25 Th. 26 Fr. 26 Fr. 27 Sa. 27 Sa. 3 First steamship to cross Atlantic leaves America, 1819. 3 Su. 3 Su. 4 Su. 5 Su. 5 Su. 6 Su. 7 Su. 7 Su. 7 Su. 7 Su. 8			411) 3. at. 12 as. \ 8.9 Showers	farmer c
17 W. John Jay died, {9.1 weather. farmer fand for 19 Fr. Ψ Stat. Q in Q. Tides {8.8 fand for 20 Sa. Tides {8.5 farmer fand for 20 Sa. Tides			A titt Tides \ 8.7 Journal of the column of	custodiar
18 Th. Con Equator. Tides (8.8.9 and for and encountry) 19 Fr. Ψ Stat. Q in Q. Tides (8.6 and encountry) 20 Sa. Tides (8.5 and leave ather) Rog. Sun. S ⊙ C. Tides (8.4 and for and encountry) 22 M. First steamship to cross Atlantic leaves America, 1819. 33 Tu. 34 W. Famous scientist, Linnaeus, Tides (8.4 and for and encountry) 35 Th. Ascen. Day. Cin Apo. (8.4 courses, play for ing face) 36 Fr. Chigh. (8.1 25th. SQC. Vin Q. ing face) 37 Sa. 38 Stationary. (9.6 Variable.) 39 The stationary. (9.6 Variable.) 39 The stationary. (9.6 Variable.) 30 The stationary. (9.6 Variable.) 30 The stationary. (9.6 Variable.) 30 The stationary. (9.6 Variable.)			John Jay died. (9.1	l .
19 Fr. \Psi Stat. \Q in \Q. Tides \bigsigma_{9.5}^{8.6} and encomplete and encomplete of the state of the s			1829. \\ \{8.7} \\ \text{weather.} \\ \{8.8}	farmer fe
20 Sa. 21 A Rog. Sun. 6 C. Tides \{8.4\\ 9.5\\ 1000 \text{ Tides}\{9.5\\ 10000 \text{ Tides}\{9.5\\ 1000 \text{ Tides}\{		1	Con Equator. Tides \{8.9\\	and for I
21 A Rog. Sun. 6 © (. Tides \{\frac{8.4}{9.5}\} \) 22 M. First steamship to cross Atlantic leaves America, 1819. 5 \(\frac{\pi}{\pi}\) 6 \(\frac{\pi}{\pi}\) Tides \{\frac{8.4}{9.7}\} \) 23 Tu. 24 W. Famous scientist, Linnaeus, Tides \{\frac{8.4}{9.7}\} \) Famous scientist, Linnaeus, Tides \{\frac{8.4}{9.7}\} \) Courses, Courses, Courses, Chigh. \(\frac{8.8}{9.7}\) 26 Fr. Chigh. \(\frac{8.8}{8.8}\) Russ \(\frac{9.7}{8.8}\) 27 Sa Russ \(\frac{9.7}{8.8}\) Stationary \(\frac{9.6}{9.6}\) Variable, this trip the course, several seve			Ψ Stat. Ψ III &. Tides (9.1)	
22 M. First steamship to cross Atlantic leaves America, 1819. 3 Tu. S \(\frac{1}{2} \text{ C.} \) 4 W. Famous scientist, Linnaeus, Tides \(\frac{8.4}{9.7} \) 5 Th. Ascen. Bay. (in Apo. \(\frac{8.4}{9.7} \) 6 Fr. (Runs. \(\frac{9.7}{8.8} \) 6 Fr. (Runs. \(\frac{9.7}{8.8} \) 7 Sa \(\frac{8.7}{8.8} \) 7 Sa \(\frac{8.7}{8.8} \) 8 Yariable, this trip the series of the			Tides \{9.3 Milder weather.	several s
leaves America, 1819. 19.6 sents the clubs, process of the courses, process of the courses, process of the clubs, process of the courses, process of the courses of the courses of the courses of the course of the			Lion. Sun. 6 @ C. Tides (9.5	The de
23 Tu. & & C. Tides \(\begin{array}{l} \frac{8.4}{9.7} \end{array} \) clubs, p. 24 W. Famous scientist, Linnaeus, Tides \(\begin{array}{l} \frac{8.4}{9.7} \end{array} \) courses, 25 Th. Ascen. Hay. (in Apo. \(\begin{array}{l} \frac{8.4}{10.7} \end{array} \) \(\begin{array}{l} \frac{8.4}{10.7} \end{array} \) \(\begin{array}{l} \frac{9.6}{10.7} \end{array} \) \(\begin{array}{			leaves America, 1819. \ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	
24 W. Famous scientist, Linnaeus, Tides \(\frac{8.4}{9.7}\) courses, 25 Th. Ascen. Hap. (in Apo. \(\frac{8-4}{9.7}\) courses play for \(\frac{1}{1000}\), \(\frac{1}{10000}\), \(\frac{1}{10000}\), \(\frac{1}{10000}\), \(\frac{1}{10000}\), \(\frac{1}{10000}\), \(\frac{1}{100000}\), \(\frac{1}{10000000000000000000000000000000000			δ ♥ C . Tides {8.4 9.7	clubs, pu
25 Th. Ascen. Day. (in Apo. S.4 courses play for Chigh. S.8 [25th. SQC. VinQ. ing face ing face)	24	W.	Famous scientist, Linnaeus, $\text{Tides } \begin{cases} 8.4 \\ 9.7 \end{cases}$	courses,
26 Fr. Chigh. \{8.8 \ \ \ 25\text{in}\ \delta \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	25	Th.		
27 Sa b Stationary (9.6 Variable this trip	26	Fr.	(Runs 19.7 25th. δΩ(. \$\forall \text{in \$\Omega\$.}	
28 At 5 of Ageon 180 Su 194 by the	27	Sa.	b Stationary (9.6 Variable.	this trip
20 A 2. at. astitt. 6 9 0. Du. 18.1 organize	28	A	S. af. Ascen. 6 \$ ⊙. Su. (8.1	organized
29 M. T. W (). These 19.2 perhaps rain, the nati			TWO. Tides (9.2 perhaps rain.	the natio
30 Tu. \(\beta\) in Perihelion. Tides \(\begin{array}{c} \{9.0\\ 8.1\\ \text{owners'} \end{array}\)			V in Perihelion. Tides (9.0	hunting
31 W. Tides \(\begin{array}{c} 8.9 \\ 8.3 \end{array} \] shooting			Tides $\begin{cases} 8.9 \\ 8.3 \end{cases}$	shooting

Farmer's Calendar. A New Farm Crop.

More than seven millions of hunters are in the field each fall. Disregard for private property by a portion of this large number of hunters is responsible to some extent for the rapidly increasing area of private lands posted against trespassing. Farmer-hunter relations, pleasant in some sections and unpleasant in others, also have a bearing upon the amount of posted hunting

The principle of public ownership of wild life appears to be firmly established in this country. Recognition of the farmer or landowner as the custodian of the public game is receiving attention of hunters. Compensation of the farmer for the use of his land and for his work in protecting and encouraging a small game supply has been legalized in several states.

The development of recreational facilities for golf presents three stages: exclusive clubs, public municipal owned courses, and the farmer owned courses where any one may play for a nominal fee. Hunting facilities are duplicating this triple stage development by the shooting preserves of organized wealthy sportsmen, the national and state owned hunting lands, and the landowners' association daily-fee shooting grounds.

19337

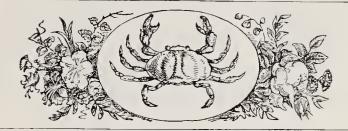
JUNE, SIXTH MONTH.

ASTRONOMICAL CALCULATIONS.

	In.			l n	L 1		ъ	7		ъ	-		т.	1 7	
п	Days.	d	m.	Days.	<u>a.</u>	_m,	Days.	<u>a.</u>	m.	Days.	₫.	m.	Days.	d.	m.
Declination	1	221	1. 4	7	22	46	13	23	13	19	23	26	25	23	24
na	2	22	12	8	22	51	14	23	16	20	23	27	26	23	22
cli	3	22	19	9	22	56	15	23	19	21	23	27	27	23	20
L Õ	4	22	27	10	23	1	16	23	21	22	23	27	28	23	17
, oa	5	22	33	11	23	6	17	23	23	23	23	26	29	23	14
0	6	22	40	12	23	10	18	23	25	24	23	25	30	23	11

- p First Quarter, 1st day, 6h. 53m., morning, E.
- O Full Moon, 8th day, 0h. 5m., morning, W. C Last Quarter, 14th day, 6h. 26m., evening, E.
- New Moon, 22nd day, 8h. 22m., evening, W.
- p First Quarter, 30th day, 4h. 40m., evening, E.

-	I Share .	٠.	1	-	ч.			_				. 70	. Toward	1 1100					
Day of Year.	y of	Day of the Week.		()		Lei	ngth)ays.	D	ay's ner.	ast	Moon's	Bo	l Sea. ston. nEven) 's		D		D
Da	Moi	Da.	h.	ises.	h.	ets. m.		mys.			m.	Mod	Morn h.	Even	Place	Se h.	ets.	Sou h.	iths.
152		$\overline{\mathrm{Th}}$.					15			0				-	Vir	0	12		13
153	$\frac{1}{2}$	Fr.	4							$\overset{\circ}{1}$	18		2		Vir	0	33	6	58
154	3		4							3		10			Lib	0	54	7	45
155	$\begin{vmatrix} 3 \\ 4 \end{vmatrix}$		4	9						3		11	$7\frac{1}{4}$		Lib	1	16	8	37
156		М.	4				15		6	5			81/4	81	Sco	1	43	9	32
157	6	Tu.					15				$\frac{1}{17}$				Sco				33
158	1 1	W.	4	8						6			4		Sgr	J.			40
159	8	Th.		7	7			$\frac{10}{12}$		8	17	0	11	111	Sgr		ses	m_0	
160	$\begin{vmatrix} 0 \\ 9 \end{vmatrix}$	Fr.	4	7	7			$\frac{12}{13}$		9				0^{114}	Cap	9	29		48
161	, ,	Sa.	4	7	7		15						0		Cap		$\frac{29}{12}$		54
162		9	4	$\dot{7}$	7	$\frac{20}{21}$	15					18	[13			46	$\frac{1}{2}$	54 54
163			4	7	7	$\frac{21}{21}$		14				19			Aqr		12		
		Tu.		$\frac{\cdot}{7}$	7	$\frac{21}{22}$		15				$\frac{13}{20}$			Psc			4	38
165			4	7	7	$\frac{22}{22}$		15			16		4		Psc		54 54	5	23
				$-\frac{1}{7}$	7			$\frac{16}{16}$	1	$\frac{11}{12}$					Ari		orn		06
167			4	7	7	1			2	$\frac{12}{12}$					Ari		14	$\frac{6}{6}$	48
168			1	7	7	23		16		$\frac{12}{12}$			7		Ari		34	7	
169			4	7	7	24	15	17		13				8	Tau	$\begin{bmatrix} 0 \\ 0 \end{bmatrix}$	56		30 13
170			4	7	7			$\frac{1}{17}$			15				Tau	1	22		15 59
171			4	7	7			$\frac{1}{17}$					91	91	G'm	1	53		$\frac{59}{47}$
172			4	7	7			$\frac{1}{17}$		13				$10^{\frac{1}{2}}$	G'm		31		37
173	$\overline{22}$	Th		7	7			18						103	G'm		ets		28
174	23	Fr	4	8	7	$\frac{25}{25}$		$\frac{17}{17}$			$\frac{14}{14}$	1			Cnc		23		
175	24		4	8	7	$\frac{25}{25}$					14	$\frac{1}{2}$	-12	2	Cnc		59		$\frac{17}{09}$
176			1	8	7	25			0		13	3	01		Leo		29		57
177			4	9	7			16			13	4	1		Leo		55		43
178					7	$\frac{25}{25}$		$\frac{16}{16}$			13	5	$\frac{1}{1\frac{1}{2}}$		Leo		99 17		$\frac{43}{28}$
			4		7			16			13	6	$2\frac{1}{4}$	0			$\frac{1}{37}$		28 11
180					7	1	15	15			13	7	3	33			57		$\frac{11}{54}$
181				10		$\frac{1}{25}$		15	j		$\frac{10}{12}$	8	$\frac{3}{4}$				19		39
													-	-2	LID).	11	13	0	09



O fields in June's fair verdure drest, And vocal now with birds and bees! A toiler from the world's highways I turn, with willing feet, to these, Inhaling here the morning breeze.

HENRY STEVENSON WASHBURN

D.M.	D.W.	Aspects, Holidays, Heights of High Water, etc.
	Th.	Nicomede. 6 \$\Psi\$ (8.7 \ Sultry.)
	Fr. Sa.	$\mathbb{C}_{\text{Eq.}}^{\text{on}}$ $\begin{cases} 8.7 \\ 9.0 \end{cases}$ $\begin{bmatrix} 1^{\text{st.}} & 6.7 \\ 6.0 \end{cases}$ $\begin{bmatrix} 1 & \text{st.} \\ 6.0 \end{bmatrix}$
4	Α	to Boston arrived, 1840. (9.6) Ruhit Sunday. & J. (8.9) (10.1)
_	M. Tu.	\square \mathcal{U} \bigcirc . \square \mathcal{E} \bigcirc . $\begin{cases} 9.1 \\ 10.7 \end{cases}$ Indica- Cleveland renominated, $\begin{cases} 9.3 \\ 11.1 \end{cases}$ tions
7	W.	(in Perigee. {\frac{9.5}{11.4}} of showers.
8	Th. Fr.	\mathbb{C} runs low. $\Diamond \mathfrak{P} \cdot \{11.6 \text{ Cool}\}$
	Sa.	$\begin{tabular}{ll} & \begin{tabular}{ll} $
11	•	Trin. S. St. Barnabas. 6 h.C. {11.2 9.4
12 13	M. Tu.	Calvin Coolidge nominated for president, 1924. First division embarked for France, 1917. Tides $\begin{cases} 10.7 \\ 9.3 \end{cases}$
14	W.	a on Equator Tides 19.5 few
	Th. Fr.	COIPUS Christi, Tides \{ \begin{array}{l} 8.9 & warm \\ \end{array} \] General Lee invaded \\ \text{Pennsylvania, 1863.} \] Tides \{ \begin{array}{l} 8.4 & days. \\ \end{array} \]
	Sa.	Pennsylvania, 1863. Tides $\begin{cases} 9.0 & aays. \end{cases}$
18	, .	1st S. after Trin. \{7.9\} Warm
$\frac{19}{20}$	м. Tu.	First General Assembly in South Virginia, 1619. $\begin{cases} 7.8 \\ 9.2 \end{cases}$ and Tides $\begin{cases} 7.8 \\ 9.3 \end{cases}$ showery.
	W.	(ADD. OBLETS CO. SUMMER 37.9
	Th. Fr.	\mathbb{C} runs high. \mathbb{Q} in $\overline{\mathrm{Peri.}}$ $\left\{\substack{8.0 \\ 9.5}\right\}$
24	Sa.	St. John, Baptist. $\mathcal{L} \circ \mathcal{L} \circ $
l i	А М.	20 S. af. Trin. 6 \$ C. \bigg\{\frac{9.6}{8.8}}\\ American Railway Union \text{Tides} \bigg\{9.6}\end{array}
	Tu.	Strike began, 1894. Tides $\begin{cases} 9.5 \\ 8.5 \end{cases}$ Weather more
	W.	L Ψ (. Tides \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
$\begin{vmatrix} 29 \\ 30 \end{vmatrix}$	Fr.	St. Peter & St. Paul. $\mathbb{Q}_{\mathrm{Eq.}}^{\mathrm{on}}$ $\mathcal{S}\mathcal{U}$ \mathbb{Q} . $\{^{9.1}_{8.9}\}$ Tides $\{^{8.9}_{9.2}\}$ [29th. \mathcal{S} \mathbb{Q} . $rain$.

Farmer's Calendar.

Eradicating Poison Ivy

If you have any poison ivy growing around the house, yard or garden, the best way to avoid a case of poisoning is to eradicate the plants.

One of the easiest ways to do this is to spray the plants with a solution of 3 pounds of common salt to a gallon of slightly soapy water. The first spraying should be done the latter part of June. Since one spraying will not kill the main stems and roots, the plants should be sprayed again as soon as the second set of new leaves are about full grown. Sometimes a third spraying is necessary.

Old crank case oil thinned with kerosene is also an effective spray. Care, however, must be taken to keep the oil away from the bark of valuable trees. Ivy climbing on posts or trees may be cut off just above the ground, and the new plants coming from the roots may then be killed with the An advantage of the spray method is that one may avoid direct contact with the plant.

In burning dried, uprooted plants, care should be taken to keep away from the poisonous smoke.

193	33]			JU	LY	, S	EVEN'	гн	Mo	ONTH.					
				ASTR	ONC	MI	CAL (CAI	CU	LATIC	NS	•			
n.	Days.	d.	m.	Days.	d.	m.	Days.	d.	m.	Days.	d.	m.	Days.	d.	m.
utio	1	23 N	1 7	7	22	36	13	21	50	19	20	51	25	19	40
ins	2	23	3	8	22	29	14	21	41	20	20	40	26	19	27
ec]	3														13
	4					15				_	_	17			00
å	5	22	-			7			~			50			46
O's Declination	3 4 5 6	22 22 22 22	58 53 49 42	$9 \\ 10 \\ 11 \\ 12$	22 22 22 21	22 15 7 59	15 16 17 18	21 21 21 21	32 23 13 2	21 22 23 24	20 20 20 20	29 17 5 53	27 28 29 30	19 19 18 18	0

- O Full Moon, 7th day, 6h. 51m., morning, W.
- C Last Quarter, 14th day, 7h. 24m., morning, W.
- New Moon, 22nd day, 11h. 3m., morning, E.
- First Quarter, 29th day, 11h. 44m., evening, W.

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of	of th	ek.		\mathbf{O}	Ler	gth ays.	Da De	y's	agt	e.n'a	Full Bos Morn	Sea,	D's	D	\supset
Day of Year.	lon fon	Day of the Week.	Rises.					cr.	m.	Moon's Age.	Morn	Even	Diago	Sets.	Souths.
		40.4	h. m.		h.	m.			_				Place	-	
182		Sa.	4 11		15			4	12	9				11 43	
183	_	S.	412		15	13	0	5	12	10	$5\frac{3}{4}$	$6\frac{1}{4}$	Sco	morn	7 18
184	3	Μ.	$ 4\ 13 $	7 24	15	11	0	7	12	11	$6\frac{3}{4}$	$7\frac{1}{4}$	Sco	0 11	8 15
185	4	Tu.	$ 4\ 13 $	7 24	15	11	0	7	12	12	$7\frac{3}{4}$	81	Sgr	0 49	9 18
186	5	W.	4 13	7 24	15	11	0	7	11	13	83	9	Sgr	1 37	
187	6	Th.	4 14		15					14	$9\frac{3}{4}$		Cap	2 39	
188			4 14		15	9			11	0	10章		Cap	rises	morn
189			4 15		15	8			11	_	113		Aqr	8 41	0 36
190	9		$\frac{1}{4}\frac{1}{16}$		15	7			11		0	$0\frac{1}{2}$	Aqr	9 11	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
191			4 16		15	6			11		$0\frac{3}{4}$		Psc	9 36	
			4 17		15	5			10^{-1}		$1\frac{3}{4}$	~	Psc	957	3 16
			4 18			3			10		$2\frac{1}{2}$			10 17	4 00
			419			2			$\frac{10}{10}$		$\frac{22}{3\frac{1}{2}}$	4		$10 \ 37$	4 44
		Fr.	4 19		15	$\frac{2}{1}$			10		$\frac{3_2}{4\frac{1}{4}}$	$\frac{4}{4\frac{3}{4}}$	Ari		
195			4 20		14				$\frac{10}{10}$	_	_	-			
		1	Į.								$\frac{5\frac{1}{4}}{61}$	$\frac{5\frac{3}{4}}{6}$		11 24	1
		S.	4 21		14					24	1	$6\frac{1}{2}$		11 53	
198	1	l .	4 22		14				10		$7\frac{1}{4}$			morn	
			4 23		14				10		8	_	G'm		
200			4 24		'14				10		9	9	G'm		9 23
			4 24		14				10		$9\frac{3}{4}$		Cnc		10 14
202			4 25	7 15	14	50	0 :	28	10	29	$10\frac{1}{2}$	10_{2}	Cnc	3 02	11 05
203	22	Sa.	4 26		14			30	9		11	$11\frac{1}{4}$			11 54
			427	7 13	14	46	0 3	32	9	1	$11\frac{3}{4}$		Leo	8 00	0 42
205			4 28		14	44	0	34	9	2			Leo	8 22	$1\overline{27}$
206	25	Tu.	4 29	7 11	14	42	0	36	9	3	$0\frac{1}{2}$	1	Vir	8 43	2 10
207	26	W.	4 30	7 10	14	40	0 3	38	9	4	$1\frac{1}{4}$	13	Vir	9 03	2 53
208	27	Th.	4 31	7 9	14	38	0 4	40	9	5	$1\frac{3}{4}$		Lib	9 24	3 37
209			4 32			36		$\frac{1}{42}$	9	6	$2\frac{1}{2}$	3	Lib	9 46	4 22
210			4 33		14			$\overline{44}$	9	7	$\frac{1}{3\frac{1}{2}}$	4		$10 \ 13$	5 11
		S.			14			46	9	8	$4\frac{1}{4}$	43	Sco		6 05
2 I 2			4 35	W	14			48	9	10	$5\frac{14}{1}$	$\frac{14}{5\frac{3}{4}}$		$\frac{10}{11} \frac{11}{27}$	7 03
	7.1		12 00	, ,	111	50		10	- 0	10	4	04	500	11 21	7 03

JULY hath 31 days.



The proud pomp of the midsummer is here;
With daisy blooms the meadow lands are white;
And over them the birds chant their delight,
And the blue, listening heavens bend to hear.

MRS. LOUISE (CHANDLER) MOULTON

D.M.	D.W.	Aspects, Holidays, Heights of High Water, etc.	Farmer
1	Sa.	Battle of the Somme begins, Tides $\begin{cases} 8.7 \\ 9.5 \end{cases}$	R
2	Α	30 S. af. T. $\lozenge^{Gr. \; Elong.} \bigoplus_{A \; ph} \{8.6\}$	Since anci
3	M.	Foundation of Quebec, 1608. $\begin{cases} 8.6 & \text{Zd. } \text{\emptyset in \emptyset.} \end{cases}$	has inflicted
4	Tu.	Independence Day Tides (8.7)	upon man an
5	$ \mathbf{w}_{\cdot} $	$\mathbb{C}_{low.}^{runs}$ Tides $\begin{cases} 8.9 \\ 11.0 \end{cases}$ Sultry and	cians, priests cians advocat
6	Th.	\mathfrak{C} in Per. $\{^{9.2}_{11.8}$ uncomfortable.	and treatmen
7	Fr.	Annexation of midea (9.4	lation and quently affore
8	Sa.	Edmund Burke died. Tides (9.6)	appeal to the
9	A	4th S. af. T. 6 h C. {\frac{11.4}{9.7}} Cool	lished facts a
10	$\widehat{\mathbf{M}}$.	Burning of London Tides [11.1] for	ment. In so
11	Tu.		seems to con
12	W.	00111, 1101.	consideration
13	Th.	\mathcal{L} Eq. O \mathcal{L} \mathcal{L} \mathcal{L} 9.5 Section 7.	Most of tanimals an
14		$\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $	rabies. The
	Sa.		microscopic saliva of
i I		να. ναταπα. <u>φ</u> Νυαυ. _{\8.9} ωατ πε,	Wounds asso
16	1.3	211 2. at. Oth. 18.8 chance	bites of such
17	M.	Powers and Bulgaria, 1915. (8.8)	wounds con their saliva
	Tu.	\mathfrak{C} in Apogee. $\{^{7.4}_{8.9}$ showers.	Dogs, particu
19	W.	\mathbb{C} runs high, Tides $\begin{cases} 7.4 \\ 9.0 \end{cases}$	out declared
20	Th.	St. Margaret. \square $\textcircled{\circ}$ \bigodot . Tides $\begin{Bmatrix} 7.6 \\ 9.2 \end{Bmatrix}$	conspicuous p
21	Fr.	Last American note on the Lusitania, 1915. Tides $\begin{cases} 7.9 \\ 9.4 \end{cases}$	disease. More
	Sa.	St. Mary Magdalene. Tides $\binom{8.2}{9.6}$	ago a meth
23	/ 1	6th S. af. T. 6 ♥ C. {8.4 More	vaccination v Today relia
24	M.	69 \bigcirc \bigcirc \bigcirc \bigcirc comfortable.	methods are
25	Tu.	St. James. $\mathcal{L}\Psi$ C. Tides $\{^{9.8}_{8.9}\}$	Law-abidin
26	W.	St. Anne. Con 6 24 C. \(\) \(dogs, and the are entitled
27	Th.	δ in δ . Tides $\begin{cases} 9.6 \\ 9.4 \end{cases}$	against this
28	Fr.	$\delta \delta C$. Tides $\begin{cases} 9.3 \\ 9.5 \end{cases}$	The canine
29	1	Boston damaged by Tides 19.0 Rain	be controlled istration. Se
$\frac{1}{30}$		7th S. af. T. 6 & Inf. \{\frac{8.7}{9.7}\]	sible owners
31		Tides $\begin{cases} 8.4 \\ 9.9 \end{cases}$	made aware ligations.
		(9.9	ngations.

Farmer's Calendar.

Rabies.

Since ancient times rables has inflicted terrible suffering upon man and animals. Magicians, priests, and early physicians advocated absurd theories and treatments. Today speculation and disputation frequently afford a more dramatic appeal to the public than established facts and prudent judgment. In some communities, nothing short of a catastrophe seems to command a serious consideration of rables.

Most of the warm-blooded animals are susceptible to rabies. The cause, an ultramicroscopic virus, is in the saliva of rabid animals. Wounds associated with the bites of such animals or any wounds contaminated with their saliva become infected. Dogs, particularly those without declared owners, play a conspicuous part in spreading this almost uniformly fatal disease. More than forty years ago a method of preventive vaccination was discovered. Today reliable preventive methods are available.

Law-abiding owners, their dogs, and the public as a whole are entitled to protection against this serious disease. The canine population should be controlled by effective registration. Seemingly irresponsible owners of dogs should be made aware of their civic ob-

1	93	33]			AU(έU	ST,	Eig	нті	н Л	Ionti	н.				
				A	STRO	NO	MI	CAL (CAL	CU	LATIC	NS				
1	1	Days.	d.	m.	Days.	d.	m.	Days.	d.	m.	Days.	d.	m.	Days.	d.	m.
Declination	1	1	18 _N	1. 2	7	16	26	13	14	41	19	12	47	25	10	46
ina		2	17	46	8	16	9	14	14	22	20	12	27	26	10	25
100	3	3	17	31	9	15	52	15	14	4	21	12	7	27	10	4
Ė	4	4	17	15	10	15	34	16	13	45	22	11	47	28	-9	43
	3	5	16	59	11	15	17	17	13	26	23	11	27	29	9	22
0)	6	16	42	12	14	59	18	13	6	24	11	6	30	9	00

- O Full Moon, 5th day, 2h. 32m., evening, E.
- New Moon, 21st day, 0h. 48m., morning, E.
- D First Quarter, 28th day, 5h. 13m., morning, W.

4-4	ئے ہوا	144	1		٠,	1					حدثم ا	00	Full	Sea	1 - 2			1 -	
Day of Year.	ry o	Day of the Week.	12	1999		ets C	Len of D	gth ays.	D	ay's ecr.	Sur	ge.	Bos	Sea, ston. Even h.	D's	S	ts.	Sou	the
Da										m.	m.	Mo			Place	h.	m.		m.
213	1	Tu.	4	36	7	4 1	14	28	0			10	$ 6\frac{1}{2}$		Sgr	\mathbf{n}	orn	8	06
214		W.		37		- 1		26		52	10	11	$7\frac{1}{2}$	$7\frac{3}{4}$	Sgr	0	21	9	12'
215		Th.						24				12	$8\frac{1}{2}$		Cap	1	28		17
216				39				22			10		$9\frac{1}{2}$		Cap	2	45	11	17
217		Sa.		40		59					10				Aqr	ris			[]
218		S.		41		58							$11\frac{1}{2}$		Aqr		35		13
219		Μ.		42		57						16			Psc	7	58	1	04
220						56				_		17	$0\frac{1}{2}$	1	Psc	8	19		51
22 I						54					10		$1\frac{1}{4}$	13	Ari	8	40		36
222						53					11		$\frac{2}{2}$		Ari	9	02		20
223		Fr.				51					11		3	$3\frac{1}{4}$	Tau	9	25		04
						50			1		11		$3\frac{3}{4}$	44	Tau		53	4	50
			1			49		0			11		$4\frac{3}{4}$	-	Tau		27		37
226						47			1		11		$5\frac{1}{2}$	6	G'm			6	26
		Tu.						55			11		$6\frac{1}{2}$		G'm			7	16
						44					12		$7\frac{1}{2}$		Cnc			8	08
		Th.									12		$8\frac{1}{2}$		Cnc		51	8	59
		Fr.									$\frac{12}{12}$		$9\frac{1}{4}$		Cnc		53	9	49
		Sa.										28		10	Leo		59		37
		S.									12				Leo		06		23
		M.									13			$11\frac{1}{2}$	Vir	se		0	08
-		Tu.								41			$11\frac{3}{4}$		Vir		09	0	52
		W.				34					13	$\frac{2}{2}$	0		Vir	7	30	1	36
		Th.				32				46		3	$0\frac{3}{4}$	1	Lib	$\frac{7}{2}$	52	2	
237			5			30		29			14	4	11/2		Lib	8	17		09
238			5			29			1	52		5	$2\frac{1}{4}$		Sco	8	46	4	
239			5			27			١.	55		6	3	$3\frac{1}{2}$	Sco	9	24		57
240			5			26		21	1	57		$\frac{7}{2}$	4		Sgr		13		57
		Tu.				24		18			15	8	5		Sgr		14		00
242			5		6	22		15			15	9	$6\frac{1}{4}$	~	Cap				03
243	31	Th	5	8	O,	21	13	13	Z	5.	15	10	$7\frac{1}{4}$	7 1/2	Cap	0	26	9	04
																			_

AUGUST hath 31 days.

1933



Sing me a song of idle days
When golden langour is on the ways,
And far away, where the upland ends,
Among red corn the reaper bends,
And farther the faint line of the sea
Lies blue, to mind us our land is free!
Sing me a song of idle days
When Love dreams in a golden haze.

FRANCIS WILLIAM BOURDILLON

D.M.	D.W.	Aspects, Holidays, Heights of High Water, etc.	
1	Tu.	Lammas Day. Tides $\begin{cases} 8.3 \\ 10.1 \end{cases}$	I
	W.	Cruns & Gr. Hel. & Stat. \{\) 8.4 \\ \] 10.4	•
3	Th.	$\operatorname{CinPeri.}$ 69 Ψ . $\left\{\begin{smallmatrix}8.7\\10.7\end{smallmatrix}\right\}$ Southerly	
4	Fr.	England declares war on Germany, 1914. $\begin{cases} 9.1 \\ 11.0 \end{cases}$ winds	V E
5	Sa.	$\delta h \mathbb{C} \cdot \delta h \mathbb{O} \cdot \begin{cases} 9.5 \\ 11.2 \end{cases}$ and warm.	0
6	Α	Sth S. af. T. Transfiguration. { .9.8	C
7	M.	D'Iberville arriv'd at Penobscot.1696. (—Capture of Ft. Wm. Henry resulted. 110.0	t
8	Tu.	\mathbb{C} on Equator. Tides $\binom{10.9}{10.1}$	1
9	W.		t
10	Th.	St. Laurence. $\{^{9.8}_{9.7}$ Refreshing	t
11	Fr.	$\delta \ \odot \ \bigcirc \ \bigcirc \ $ Tides $\begin{cases} 9.1 \\ 9.4 \end{cases}$ breezes.	ι
12	Sa.	Albert Gallatin, American statesman, died. 1849. Tides $\{8.5, 5, 1, 1, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,$	1
13	Α	9th S. atter Trinity. Tides \ \ \frac{7.8}{8.7}	8
14	M.	$\text{Tides } \begin{cases} 7.4 \\ 8.5 \end{cases}$	е
15	Tu.	Cruns high. Cin Ap. $\{^{7.2}_{8.5}\}$	2
16	W.	The Northern Sea discovered Tides [7.2]	c
17	Th.	/ O 1/ × Gr. Elong. midea [7.4]	f
18	Fr.	First English child born in America, 17.7 at Roanoke, Va., 1587. Named Virginia 19.1	I
19	Sa.	$\mathcal{L} \ \mathcal{L} \ $	C
20	/ 1	10th S. af. C. (8.5 Pronounced)	j
21		\bigcirc Annular Eclipse, \forall in \bigcirc . $\{8.9\}$	J
22		$\left \mathcal{S} \ \Psi \ \mathbf{C} \right $. Tides $\left\{ \frac{9.8}{2} signs \ of \right $	I
23		Con 64α. 69α. {9.9 rain.	t
24		St. Bartholomew. Tides $\{9.9,9\}$	7
25	Fr.	S 3 €. Tides { 9.7	1
26	Sa.	\forall in Per. Tides $\binom{9.4}{10.1}$ Cooler	1
27	Α	11th S. af. Trin. (9.0 weather.)	1
28		St. Augustine. Tides $\begin{cases} 8.6 \\ 9.8 \end{cases}$	a
29	Tu.	Beheading of St. John, Cruns 88.3 9.8	f
30		Second Battle of Bull Run, 1862 , Tides 8.2 , 9.8	h
31	Th.	© in Perigee. Tides \{\frac{8.3}{10.0}}	

Farmer's Calendar.

Farmer's Rights Regarding Aviation

The ability of the law to deal with new problems has again peen demonstrated in the field of aviation. Since the dawn of our common (English) law the courts have jealously guarded the right of the landowner against trespassers. It has been held that a trespass may oe committed by walking on the ground, by tunnelling under the ground or by invading the air space above the ground. This was on the principle that "he who owns the earth owns down to the center and up to the skies"—a sort of glorified cut of earthly and celestial pie. On this theory the following have been held trespassers—shooting a projectile, over land, stringing a wire over land, building so that eaves projected over the adjoining land.

joining land.

The development of the airplane has raised a problem, for the strict application of the above - mentioned principle would make every inch of the plane's progress a trespass and make flying impossible. The ability of our law to retain the heart of the theory and still atone for the progress of civilization is shown by the uniform tendency of the courts to hold that flying at certain

(Continued on page 33)

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SEPTEMBER, NINTH MONTH.

ASTRONOMICAL CALCULATIONS.

	Days.	d.	m.	Days.	d.	m.	Days.	d.	m.	Days.	d.	m.	Days.	d.	m.
Declination	1	8 _N	.17	7	6	04	13	3	48	19	1	2 9	25	0	52
na	2	7	55	8	5	42	14	3	25	20	1	05	26	1	15
cli	3	7	33	9	5	19	15	3	01	21	0	42	27	1	38
De	4	7	11	10	4	56	16	2	38	22	0N	.19	28	2	02
3	5	6	49	11	4	33	17	2	15	23	0s	. 05	29	2	25
0	6	6	26	12	4	11	18	1	52	24	0	28	30	2	4 9

- O Full Moon, 4th day, 0h. 4m., morning, W.
- New Moon, 19th day, 1h. 21m., evening, W.
- p First Quarter, 26th day, 10h. 36m., morning, E.

1					_		-								11101		· 10		
Day of Year.	th.	Day of the Week.		()		Ler	ngth	p	ay's	agt.	on's	Full Bos	Sea, ton. Even h.	D's			I	
Day	Day	Day We	R h.	ises.	h.	ets. m.	h.	m.	h.	m.	in.	MOG	Morn h.	Even h.	Place	Se h.	ts m.	Sou h.	ths.
244	. 4	Fr.			6			10		8	16	11	81/4		Aqr	1	44	10	
245		Sa.	5	10	6	17	13	7	2					$9\frac{3}{4}$	Agr		03		52
246	3	S.	5	11	6	15	13	4	2	14	16	13	104	$10\frac{1}{2}$	Psc			11	41
247								-2				0	11	$11\frac{1}{4}$	Psc	ris	es	mo	orn
248	5	Tu.	5	13									114		Ari	6	42	0	27
249				14				56					$0\frac{1}{4}$	$0^{\frac{1}{2}}$	Ari	7	04	1	12
250		Th.						54		24			1		Ari	7	26	1	56
251								51					$1\frac{3}{4}$	2	Tau	7	53		42
252								48							Tau	8	24	3	29
253		S.													G'm	9	02	4	18
254				19				43					4		G'm		47	5	
255	12	Tu.	$\frac{5}{2}$	20	6			40					5		G'm			5	59
256	13	W.	5	21	Õ	58	12	37	2				6	-	Cnc		40	6	50
257	14	Th.	5	23				33		45			$6\frac{3}{4}$	$\frac{7}{2}$	Cnc			7	41
		Fr.								47		25	73		Leo	0	43	8	29
		Sa.								50		26			Leo	1	50		16
		S.								53		27			Leo		58	10	02
		M.												$10\frac{1}{4}$	Vir		06		46
		Tu.											$10\frac{1}{2}$		Vir			11	
		W.									22	1	114	-	Lib		56	0	16
		Th.									23	2		0	Lib	1	21	1	05
		Fr.		$\frac{31}{32}$							23	3			Sco		49	1	56
266		8a. S.							9	$\frac{10}{12}$		$\begin{vmatrix} 4 \\ 5 \end{vmatrix}$	$\begin{bmatrix} 1 \\ 2 \end{bmatrix}$	15	Sco	7	25	2	52
268				34						15		6		24	Sgr		11	3	52
		Tu.	1				1			18	1	7	$\frac{2\frac{3}{4}}{28}$	3	Sgr		07	4	54
		W,									25		$\begin{vmatrix} 3\frac{3}{4} \\ 4\frac{3}{4} \end{vmatrix}$	4 51	Cap				56
		Th.						54	3		3	9	$\begin{vmatrix} 44\\6 \end{vmatrix}$		Cap				57
		Fr.											7		Aqr			8	53
		Sa.												81	Aqr Aqr		47	9	45 34
2/3		Da.		70		20		3.0	V	00	120	111	4	1 02	rigi	4	03	J	04



The jay screams through the chestnut wood; The crisped and yellow leaves around Are hue and texture of my mood-And these rough burrs my heirlooms on the ground.

HENRY D. THOREAU

D.M.).W	Aspects, Holidays, Heights of High Water, etc.	
_			
	Fr.	ሪ ካ \mathfrak{C} . Tides $\left\{\begin{smallmatrix} 8.7\\10.3\end{smallmatrix}\right\}$ $Cool$	
2	Sa.		
3	Α	12th S. af. Trin. Tides $\begin{cases} 9.7 \\ 10.7 \end{cases}$ and	
4	M.		t۱
5	Tu.	$ \overset{\text{Gr.Hel.}}{\downarrow} \text{Lat. N.} $ Tides $\left\{\frac{10.2}{-}\right\}$	s
6	W.	\(\) Gr. Hel. Tides \(\) Lat. N. Battle of the Marne begins, Tides \(\) 10.4 (10.3)	1
7	Th.	o o o o o o o o o o o o o o o o o o o	s
8	Fr.	Nativ. of Vir. Mary. Q in \mathcal{C} . $\{^{9.5}_{9.9}\}$	b
9	Sa.	Tides $\begin{cases} 8.9 \\ 9.5 \end{cases}$ and warm.	с. ј т
10	Α	13th S. atter Trin. Tides \{\frac{8.5}{9.1}	N
	M.	δ Φ ⊙ Superior. Tides (7.8 8.7	
12	Tu.		$\frac{\mathbf{t}}{\mathbf{h}}$
	W.	Trins (in Apogee. 8.4, Battle on the Plains of Abraham, 7.2, Que., 1759, Wolfe & Montcalm killed 8.4	c
•	Th.	Aaron Burr died, Tides (25	n
	Fr.	James Fennimore Cooper $\begin{cases} 7.5 \\ \text{born}, 1789. \end{cases}$ Tides $\begin{cases} 7.9 \\ 9.1 \end{cases}$ nights,	
16	Sa.	Tides $\{ \substack{7.9 \\ 9.1} \}$ nights,	v
	Α	14th S. at. C. \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	ľ
18	M.	б \ Тides \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	t
		Con Eq. 6 \$ 4. (9.6) Warmer	l n
20	W.	64 C. δ C. (10.0) again.	la
21	Th.	St. Matthew. Tides $\{_{10.4}$ \mathbb{C}	t
22	Fr.	$ \begin{array}{cccc} \text{Tides} & \text{Tides} \\ 10.6 & \text{Operator} \\ \text{AUTUMN} & \text{Total Solution} \end{array} $	t
		enters REGINS. OO . 110.6	la
	Α	15th S. af. T. Tides (9.4 Cool	b
25	M.	Truns of in \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	l n
26	Tu.	Americans break Hindenburg (8.5 some line, 1918.	
27	W.	line, 1918. \(\frac{9.8}{9.6} \) frosts in	g
28	Th.	in 8. Tides \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	S
		St. Michael & All Angels. 62. (8.5	k
30	Sa.	St. Jerome. Tides $\begin{cases} 8.9 \\ 9.8 \end{cases}$	

Farmer's Calendar.

Timely Hints for The Farmer's Wife

Why not put a hinge in the read for the bottom step of the tairs to make a storage place or rubbers.

Much time can be saved in helling peas for a big family y running them through the lothes wringer with rolls adusted to just break the pod without mashing the pea.

A small paint brush added o the cleaning equipment will nelp in removing dust from corners where the broom does ot go.

A cloth dampened with alcohol will clean dusty candles without taking off the luster.

sewing When with thread put it through the needle twice. That is, put it through and then circle back and go through again to keep the thread from slipping from he needle while sewing. This loes not hinder in any way the ine use of needle and thread, out it does keep you from osing time in re-threading the needle.

Try serving sour cream of good flavor with cinnamon and sugar for a dessert. It can be called bonnydabber or fillebunke and may be much liked.

19	33]			OCT	OF	BEI	R, TE	NTI	н 1	Tont	н.				
ASTRONOMICAL CALCULATIONS.															
n.	Days.	d.	m.	Days.	d.	m.	Days.	d.	m.	Days.	d.	m.	Days.	d.	m.
Declination	1	3s.	. 12	7	5	31	13	7	47	19	10	00	25	12	07
ina	2	3	35	8	5	54	14	8	10	20	10	21	26	12	28
scli	3	3	58	9	6	17	15	8	32	21	10	43	27	12	4 8
Ã	4	4	22	10	6	39	16	8	54	22	11	04	28	13	08
S	5	4	45	11	7	02	17	9	16	23	11	25	29	13	28
Ô	6	5	08	12	7	25	18	9	38	24	11	46	30	13	48
														-	

- O Full Moon, 3rd day, 0h. 8m., evening, E.
- C Last Quarter, 11th day, 11h. 46m., morning, W.
- New Moon, 19th day, 0h. 45m., morning, E.
- D First Quarter, 25th day, 5h. 21m., evening, E.

Day of Year.	Day of Month.	Day of the Week.	R h.	ises.) h.	ets.	Ler of D	gth ays.	D D	ay's ecr.	Bun Fast,	Moon's	Full Bos Morn h.	Sea, ton. Even	D'S	Se			oths.
274	1 -4	S.													Psc			10	
275												13			Psc		$\frac{1}{27}$		
276	3	Tu.											$10\frac{1}{2}$		Ari	l .		11	
277		W.												$11\frac{3}{4}$		5		mo	
278		Th.	5	45	5	19	11	34	3	44	27	16		0	Tau		54		34
279	0	Fr.	5	46	5	17	11	31	3	47	28	17	$0\frac{1}{2}$	$0\frac{3}{4}$	Tau	6	23	1	1
280		Sa.											11	14	G'm	6	58	2	09
281	8	S.								52	28	19	2^{-}	$\lfloor 2 \rfloor$	G'm	7	41	2	59
282		M.		50						55			$2\frac{1}{2}$	$2\frac{3}{4}$	G'm	8	30	3	50
		Tu.											$3\frac{1}{2}$	$3\frac{1}{2}$	Cnc	9	27		42
				52				17			29		$4\frac{1}{4}$		Cnc				32
		Th.						15			29		54		Cnc			6	21
286				54				12			29		$6\frac{1}{4}$		Leo			i	08
287				55			11		4		30		7		Leo		39	7	53
		S.		57			11			12			$7\frac{3}{4}$	_	Vir		47		38
289			5	58			11			15			$8\frac{1}{2}$	9	Vir		55		22
		Tu.					11			17			$9\frac{1}{4}$		Lib			ì	07
1		W.	6		4					20		29	10		Lib		18		
		Th.								22				114	Sco	se		11	
293	20	rr.	6							25		1	$11\frac{1}{2}$	0.1	Sco	1	23		42
294	21	oa.	6							28		$\frac{2}{2}$	0		Sgr		07	1	42
295 296	22	S.	6							31		3	$0\frac{3}{4}$	1	Sgr	l .	01		45
		Tu.		7	1	40	10	40	4	33 36	91	4 5	$1\frac{3}{4}$	2	Cap		07		50
		W.								39			$\frac{2\frac{1}{2}}{2}$	3	Cap	1	20	t	51
		Th.		1.0								$\frac{6}{7}$	$3\frac{1}{2}$		Cap				49
		Fr.		11									$\frac{4\frac{3}{4}}{53}$	5	Aqr				42
		Sa.										8 9	$\frac{5\frac{3}{4}}{63}$		Aqr		rn		31
		S.											6월 7월		Psc	l .			17
		M.												$\frac{64}{9}$	Psc	1	15	9	01
304														10	Ari Ari		2331	9	44 29
5-4		I U.							-	O I	02	12	2	., 0	2111	4	01	10	49

OCTOBER hath 31 days.



Far in a sheltered nook,

I've met, in these calm days, a smiling flower,
A lonely aster, trembling by a brook,
At noon's warm quiet hour.
And something told my mind

That should add ago to shillhood call me be

That should old age to childhood call me back, Some sunny days and flowers I still might find Along life's weary track, JOHN HOWA

JOHN HOWARD BRYANT.

[1933

D.M	D.W	Aspects, Holidays, Heights of High Water etc.	Farmer's Calendar.
1	Α	16th S. af. T. (9.4 Variable)	Leafy Covering Keeps
2	M.	$\operatorname{\mathfrak{C}}$ on Eq. Tides $\left\{\begin{smallmatrix} 9.9 \\ 10.0 \end{smallmatrix}\right\}$ winds	"Pores" of Soil Open.
3	Tu.	George Bancroft, historian. {10.1 and born, 1800.	Leaves covering the ground
4	w.	$\delta $	not only hold a large amount
5	Th.	Jonathan Edwards born, Tides {	of rainfall themselves, but they keep the "pores" of the soil
6		Germany & Austria address pleas 9.5	open and allow it to absorb
7		for armistice to Pres. Wilson,1918. $\{0.1\}$ Tides $\{0.1\}$	much more moisture than land not so covered, according to
8		17th S. af. T. Tides (8.6 Warm	soil erosion specialists of the
	$\hat{\mathbf{M}}$.	et Denie Runs Tin An 18.2	United States Department of
	Tu.	Va. and Ohio Indians 17.8 FOth. x in	Agriculture. In Oklahoma an experiment
11		Columbus discovers the (7.5 and	is in progress to discover how
	Th.	Banama Islands, 1492. (8.5	much water the leafy covering
	Fr.	+ 111 11 p11.	in wooded land holds. Measure- ments showed that the amount
	Sa.	from Ger. to U.S., 1924. \8.4 30 acres ty	of water held on the land was
		0.0	much more than the leaves
	A	1011 2. at. ofth. 9 4 6. 18.9	could hold. The investigators found that the leaves filter the
	6 M.	Con Equator. Tides $\begin{cases} 8.9 \\ 9.2 \end{cases}$	water, keep it clear and let it
	Tu.	$\mathcal{S} \overset{\mathcal{H}}{\underset{\text{off}}{\mathcal{I}}} \mathcal{I} . \text{Tides} \begin{cases} 9.6 \\ 9.5 \end{cases} Some$	Sour into the son through the
-	3 W.	St. Like. Tides $\begin{cases} 10.1 \\ 9.7 \end{cases}$ rain.	many cracks and holes. Where there is no leafy covering to
- '	$\frac{ Th.}{ T}$	8 6 0. Tides \{\begin{align*} \{10.6 \\ 9.8 \end{align*} \}	filter the water, silt fills these
	Fr.	δ \ (. Tides \ \ \frac{11.0}{6.00}	pores and more water then
	l Sa.	(in Perigee. Tides \(\begin{aligned} \) 1.1 Mild	oroded soil
22	2 A	19th S. af. Trin. 63 C. (11.0	
23	3 M.	Cruns low. {9.3 [22 ^d 69 €.	size were observed. One was
24	4 Tu.	Peace of Westphalia, $\begin{cases} 8.9 \\ 10.3 \end{cases}$ for the	left in the natural state, the other had the leafy covering
2	5 W.	St. Crispin. Tides $\begin{cases} 8.6 \\ 9.8 \end{cases}$ season.	
120	3 Th.	6 h C. Tides (8.5 9.5	A special device measured the
2'	7 Fr.	Amer. troops first officially reported 18.5	run-off of water and the wash- off of soil. In 2 years, 30 times
28	Sa.	St. Simon & St. Jude. & Gr. Elong. \{8.8 \\ 9.2	as much water and 15 times as
29		20th S. af. T. Con & Gr. Hel. (9.1)	much soil were saved on the
30		Republic proclaimed 19.5 Southerly	
3		III IIIIIgary, 1910.	

19337

NOVEMBER, ELEVENTH MONTH.

ASTRONOMICAL CALCULATIONS.

ä	Days.	d.	m.	Days.	d.	m.	Days.	d.	m.	Days.	d.	m.	Days.	d.	m.
Declination	1	14s	. 27	7	16	18	13	17	59	19	19	29	25	20	46
na	2	14	46	8	16	35	14	18	15	20	19	43	26	20	58
cli	3	15	05	9	16	53	15	18	30	21	19	56	27	21	09
Ã	4	15	24	10	17	10	16	18	45	22	20	09	28	21	19
e,s	5	15	42	11	17	26	17	19	00	23	20	22	29	21	30
Θ	6	16	00	12	17	4 3	18	19	15	24	20	34	30	21	40

- O Full Moon, 2nd day, 2h. 59m., morning, W.
- New Moon, 17th day, 11h. 24m., morning, E.
- > First Quarter, 24th day, 2h. 38m., morning, W.

Day of Year.	y of nth	y o.		. ()		Len	gth ays.	D.	ay's ecr.	un ast.	on's	Full Bos Morn	sea,) 's		D		D
Da	Da	Day of the Week,	h.	ises.	h.	ets. m.		m.		m.	m.	Moon's Age.	Morn h.	Even h.	Place		ts. m.		ths.
305				17	4			21	4	57	32	13	104	$10\frac{3}{4}$	Tau	5	38	11	14
306	2	\mathbf{T} h.	6	18	4	37	10	19	4	59	32		10 ³ / ₄			ri	ses	\mathbf{m}	orn
307	3	Fr.	6	20	1	36	10	16	5	2	32	15	$11\frac{1}{2}$		Tau	4	57	0	02
308	4	Sa.	6	21	4	34	10	13	5	5	32		0	01	G'm	5	36	0	52
309	5	S.	6	22	4	33	10	11	5	7	32	17	03	$0\frac{3}{4}$	G'm	6	23	1	42
310	6	M.	6	23	4	32	10	9	5	9	32	18	11/2	$1\frac{1}{2}$	Cnc	7	18	2	34
311	7	Tu.	6	25	4	31	10	6	5		32	19	$2\frac{\tilde{1}}{4}$	$ 2\frac{5}{4}$	Cnc	8	18	3	25
312	8	W.	6			30					32		3	3	Cnc	9	21	4	14
313	9	Th.	6			29			5		32		$3\frac{3}{4}$	4	Leo	10	24	5	01
314			6	28			9	59			32		$4\frac{1}{2}$	$4\frac{3}{4}$	Leo	11	30	5	46
315			6			26	9	56			32		$5\frac{1}{2}$	$ 5\frac{3}{4} $	Vir	$ \mathbf{m} $	orn	6	30
		S.					9	54			32		$6\frac{1}{4}$	$6\frac{1}{2}$	Vir	0	36	7	13
317				32			9	53			31	25	7	$7\frac{1}{2}$	Vir	1		7	56
		Tu.					9	51			31	26	8		Lib	2	53	8	42
319				35			9	48		30	31	27	$8\frac{3}{4}$	$9\frac{1}{4}$	Lib	4	06	9	31
1 - 1		Th.					9	46		32		28	$9\frac{1}{2}$	10	Sco		24	10	25
321				37			9	44		34			$10\frac{1}{4}$	$10\frac{3}{4}$	Sco	se	ts	11	24
322				38			9	42		36		1	11		Sgr		47	0	28
		S.					9	39			30	2		0	Sgr	5	51	1	34
324				41			9	38		40		3	$0\frac{1}{2}$	$0\frac{3}{4}$	Cap	7		2	40
		Tu.					9	36		42		4	$1\frac{1}{2}$		Cap		25	3	42
326	~ ~			43			9	34		44		5	$2\frac{1}{2}$		Aqr	9	42	4	38
327		Th.				17	9	32		46		6	$3\frac{1}{2}$		1	10	56	5	29
		Fr.					9	30		48		7	$4\frac{1}{2}$		Psc		oru	6	16
329	_		•	47		15	9	28		50		8	$5\frac{1}{2}$		Psc	0	08	7	00
330		S.		48			9		5	51		9	$6\frac{1}{2}$	$6\frac{3}{4}$		1	15	7	43
331	27		6			14	9	25			28		$7\frac{1}{2}$	$7\frac{3}{4}$	Ari	2	22	8	27
332	$\frac{28}{28}$	Tu.					9		5	54			$8\frac{1}{4}$	$8\frac{3}{4}$		3	29		11
333	29			51		14	9	23		55		12	9		Tau	. 4	35		58
334	30	Th.	6	53	4	13	9	20	5	58	27	13	$9\frac{3}{4}$	$10\frac{1}{4}$	Tau	5	41	10	46
_			-			-				-	-		_				_	_	

NOVEMBER hath 30 days.



How soft and still the autumnal landscape lies, Calmly outspread heneath the smiling skies; As if the earth, in prodigal array Of gems and broidered robes kept holiday; Her harvest yielded and her work all done, Basking in beauty 'neath the autumn sun!

SARAH HELEN WHITMAN

[1933]

			_
D.M.	D. W.	Aspects, Holidays, Heights of High Water, etc.	
	W.	All Saints Day. & & C. Tides (10.0) 9.2	
	Th.	$\square \ \ \square \ \ \bigcirc .$ Tides $\left\{ \begin{smallmatrix} 10.1 \\ 9.0 \end{smallmatrix} \right\} \ High$	
	Fr.	Q Gr. Hel. Tides $\{\frac{10.0}{L}$ winds and	a
	Sa.	Cleveland elected, Blaine 8.8 rain.	V
5		21st S. af. Trín. Chigh, \{8.6\\ 9.7\}	s t
	М.	$Cin Apogee.$ $\{^{8.4}_{9.4}$ Colder.	a
7	Tu.	Battle of Tippecanoe, Tides $\{8.1 \\ 9,1 \}$	e
8	1	$\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $	c
9		Henry Cabot Lodge Tides \ 7.8 mild	i
10	T .	Tides $\begin{cases} 7.8 \\ 8.5 \end{cases}$ days.	b
	Sa.	St. Martin. Tides $\begin{cases} 8.0 \\ 8.4 \end{cases}$	p
12	/ L	220 S. af. Trin. δΨ C. \ 8.8 8.6	c
13		\bigcirc on Equator. $\begin{cases} 8.8 \\ 8.7 \end{cases}$ Colder,	d
	Tu.	6 24 C. Tides \\ \begin{array}{ll} 9.8 & some moist \\ 9.0 & \end{array}	C
	W.	First meeting of League \ 9.9 \ days \ 9.2 \ days	n
	Th.	of Nations, 1920. {9.2 adys} Tides {10.5 about this}	p H
	Fr.	ğ in Ω. δ ğ €. {11.0 time.	n
	Sa.	Cin Per. 6 $\heartsuit \odot$ Inf. $\S^{11.2}_{9.5}$	0
19		230 S.af. T. Cruns of C. {11.8	I
	M.	6 9 C. Tides { 9.4 11.2	t
21	-A. C.	\forall in Perihelion. Tides $\{^{9.3}_{10.8}\}$	c o
	W.	St. Cecilia. $\mathcal{L}_{0.3}$	t
23		Tides \{\begin{align*} 8.9 \\ 9.8 \end{align*}	H
	Fr.	Battle of Lookout 88.8 Cold winds. Mountain, 1868. 9.3 Cold winds.	r
	Sa.	St. Catharine. Con Par. Elong. (8.8)	r
1	Α	24th S. af. Trin. Tides $\binom{9.0}{8.6}$	f
ı — ·	M.	Gen. Washington goes into winter quarters at Middlebrook, 1778.	S
	Tu.		V
	W.	Wendell Phillips Tides \{\begin{array}{l} 9.5 \ 8.3 \end{array} \ Milder. \]	o
30	Th.	St. Andrew. Thanksgiving Day. ${9.6 \atop 8.8}$	0

Farmer's Calendar.

Care of Farm Tools.

If a farmer has a horse or a cow or some other animal of which he does not take reasonable care, the "Society with the long name" will soon get after him. Nobody, however, enters a complaint when the farm tools are not properly cared for. Neglect of both animals and tools on many farm is the source of some mighty big leaks in the farmer's profit.

The mowing machine, the corn harvester, and the potato ligger have now finished their work for the season. Have you cleaned them up and made a note of any broken or worn parts before storing away? Have the sections of the nower knife and the knotter of the corn harvester been greased to prevent rusting? s the hay rake still out under the apple tree? Have you cleaned and greased the gears on the fertilizer sower and in the hopper of the corn planter? Fertilizer will cause iron to cust very quickly and rapidly. Have the plows and disc harows been cleaned and oiled? When a plow is laid by even for a few weeks its polished surfaces should be cleaned, wiped dry and given a coat of Old crank case oil from the auto is mighty good stuff 8.3 for this purpose.

	28																	
	1933] DECEMBER, Twelfth Month.																	
-	ASTRONOMICAL CALCULATIONS.																	
	ii.	Days.	d.	m.	Days	d.	m.	-1-	Days	. d	. m	. Da	ys.	i. m.	Da	ys.	d.	m.
	Declination.	1		. 49	7	22			13	2				23 25			23	24
	lin	$\frac{2}{3}$	$\begin{vmatrix} 21 \\ 22 \end{vmatrix}$	$\frac{58}{07}$	8 9	$\begin{vmatrix} 22\\22 \end{vmatrix}$			14 15	$\begin{vmatrix} 1 \\ 2 \end{vmatrix}$				$\begin{array}{ccc} 23 & 26 \\ 23 & 27 \end{array}$	20		23 23	$\begin{vmatrix} 22 \\ 20 \end{vmatrix}$
	Dec	4	$\frac{22}{22}$	15	10	$\begin{vmatrix} \frac{2}{2} \\ 2 \end{vmatrix}$		- 1	16	$\begin{vmatrix} \frac{2}{2} \end{vmatrix}$		- 1		23 27			23	$\frac{20}{17}$
	O's	5	22	23	11	23	01		17	2	3 2	$2 \mid 2$		23 27	29	9	23	14
-	9	6	22	30	12	23		·	18	-	3 2	1		23 26		0	23	10
	O Full Moon, 1st day, 8h. 31m., evening, E.																	
	 																	
		•																
1		D												renin				
				II N	loor	1, 3	lst	aa	ay,					ening				
,	Day of Year.	Day of Month. Day of the	eek.	· ·)		ngth Days.		ay's ecr.	ast.	Moon's Age.	Full Bos	Sea,	⊅ 's				D
1	Y. L.	No Da	$\geqslant \frac{1}{h}$	dises. . m.	Sets.	h.	m.		m.	m.	Mo	Morn h.	Even h.	Place	Sei	m.	Sou h.	iths. m.
l i	35	1 Fr	. 6		4 13		18		0	27	0	$10\frac{1}{2}$	11	G'm		44	11	37
	36	2 Sa	- 1		4 12		17		1		15	11	113	G'm	ris			$ \mathbf{rn} $
	37	38			4 12		16		2	26	16	11출		G'm	5	10	_	28
	38	4 M			4 12		15		3	25		$0_{\frac{1}{4}}$		Cnc		08	1	19
	39	5 Tu			4 12		13		5		18	1	1	Cnc		11	2	09
	40	6 W			4 12		13				19	$1\frac{3}{4}$		Leo		15		56
	41	7 T			4.12	1	12				20	$2\frac{1}{2}$	$2\frac{1}{2}$	Leo		19	3	42
	42	8 F1	- 1		4.12		12		6		21	$3\frac{1}{4}$		Leo				25
11 -	43	9 Sa		-	$\frac{4}{4}$ $\frac{12}{12}$		11		7	23		4	$\frac{4}{2}$	1	i .	27	5	07
_	44	10 S			4 12		10		8	23	23	$4\frac{3}{4}$	$\frac{5}{2}$	Vir	mo		5	49
3		11 M			$\frac{4}{4}$ $\frac{12}{12}$		9		9	22	24	$\frac{5\frac{1}{2}}{6}$	6	Lib		33		32
		12 Tu	1. 7 . 7		4 12 $4 12$		8 7				25 2c	$6\frac{1}{2}$		Lib		43	7	18
3		13 W 14 T		6			6			21	$\frac{26}{27}$	$\frac{7\frac{1}{4}}{6}$	$\frac{7\frac{3}{4}}{6}$			56	8	08
		14 I. 15 Fi		6					$\frac{12}{12}$	21		8	$8\frac{5}{4}$	Sco		14	9	03
3		100.	7		4 12		C		12		48	9	$9\frac{1}{2}$	Sgr	5	34	10	04

DECEMBER hath 31 days.



Now sunlight glimmers, pale and shy,
And now the winter winds are high,
The winter winds are bold;
We loved the springtime's sun and rain,
We longed for summer's rose again,
We loved the autumn's golden grain,
We love the winter's cold!

DORA READ GOODALE

「1933

ı				_
	D.M.	D.W.	Aspects, Holidays, Heights of High Water, etc.	
1	1	Fr.	Lady Astor takes seat in House of [9.6]	
-		Sa.	Commons, 1st woman member, 1919. [8.3] Gr. Hel. Tides [9.6] Cold,	
		Α	1st S. in Ad. Cruns (9.6 bluster-	
1		$ \dot{\mathbf{M}}_{\cdot} $		e
ı	5	Tu.		1
1	6	W.	St. NICholas. \(\rightarrow\) Gr. Elong. Tides \(\begin{array}{c} 8.1 \\ 9.2 \end{array}\)	h
1	7	Th.	Pres. Wilson signs resolution declar- (8.1)	fo
1	8	Fr.	Pres. Wilson signs resolution declar- § 8.1 ing war with Austria-Hungary, 1917. § 9.0 First deposit of California gold made § 8.1 in the United States mint. 1848. § 8.8	a
	9	Sa.	δΨ C. Tides \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	0
	10	Α	20 Z.in Ad. (on \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
	11	M.	$\mathrm{Tides}\left\{_{8.4}^{8.7}\right.$	
	12	Tu.	ბ ≇ ℂ ∙ Tides {9.1	
	13	W.	Battle of Fredericksburg. $\begin{cases} 9.6 \\ 8.6 \end{cases}$ Quite	w
		Th.	$\mathcal{L}_{\text{Lat. N.}}^{\text{Gr. Hel.}}$ Tides $\begin{cases} 10.1 \\ 8.8 \end{cases}$ mild.	t.
	15	Fr.	Ψ Stationary. ሪ호 🕻 · (10.6)	li y
	1	Sa.	\mathbb{C} runs low. Tides $\binom{11.0}{9.2}$	b
		Α	30 Sun. in Adbent. (in Peri. (11.3 9.4)	h
		M.	d d €. Tides {\frac{11.4}{2}}	p
		Tu.	Edwin M.Stanton, Secretary of War \ 9.4 under Lincoln, born, 1814.	o h
	1	W.	δ Q C. δ b C. Tides {9.4 {10.8	s
l	21		St. Thomas. 8 9 12. 10.8 Snow	h
		Fr.	\bigcirc en. \mathcal{V} , WINTER Tides $\{9.3 \atop 9.7 $ may	V
		Sa.	Con Equator. (9.2 be looked	_
l		Α	4th Sun. in Av. Tides (8.5 for.	t t
	25		Christmas. 6 © C. \$\forall \in \cong \cdot \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	a
ı	26		St. Stephen. Tides ${8.9 \atop 7.8}$	f
l	27		St. John, the Evangelist. (7.6 Severe	b
I	28		Holy Innocents. Tides (5.6 cold. Texas admitted to Union, Tides (9.1	li
	29		1845	t
		Sa.	Cruns Q in Q . {9.2 [31st. 3 Gr. Hel. Lat. S. Lat. S. Gr. 4]	e
	31	Α	1st Z. af. C. Capo. Paril. \\\ \{7.9}	L

Farmer's Calendar.

Our Forefathers' Advice for December

The following was the Farmer's Calendar for December 1793 — our first edition. Its homely advice is just as good for us today as it was for our ancestors 140 years ago:

Put your sleds & sleighs in order.

Complete your thrashing. Visit your barns often.

See that your cellars are well stored with good cider, that wholesome and cheering liquor, which is the product of your own farms; No man is to be piticd, that cannot enjoy himself or his friend, over a pot of good cider, the product of his own country, and perhaps his own farm; which suits both his constitution and his pocket, much better than West-India spirit.

Now comes on the long and social winter evenings, when the farmer may enjoy himself, and instruct and entertain his family by reading some useful books, of which he will do well in preparing a select number.

Adjust your accounts; see that your expenditures do not exceed your incomes.

REMARKABLE ASTEROIDS OF 1932.

THE OLD FARMER'S ALMANAC for 1930 contains a discussion of the little asteroid Eros, which of all heavenly bodies known at that time comes closer to the Earth (within 13,840,000 miles) than any other except the Moon. Eros had held this distinction ever since its discovery in 1898, but lost it in 1932 when two more asteroids were found which come even nearer.

The first of these was detected on March 12 by the Belgian astronomer Delporte, when it appeared like a thirteenth-magnitude star in the constellation Virgo, then almost opposite the Sun. It had an apparent eastward motion among the stars of more than a degree a day, whereas an ordinary asteroid in that position would have seemed to move westward due to the Earth's more rapid orbital revolution. This circumstance immediately aroused great interest among certain astronomers, who soon determined the form, size, and position of the orbit. They found that the object passed its perihelion on April 4 at a distance of 101,000,000 miles from the Sun and only about 7,000,000 miles outside the Earth's orbit: that the aphelion distance is 2.6 times greater; that the orbit lies in a plane inclined 12° to the plane of the ecliptic; and that the period of revolution is 2.7 years.

The second asteroid referred to, which was discovered by Reinmuth in Germany on April 24 very nearly opposite the Sun, has an even more remarkable orbit. Its perihelion, which it passed on July 7, lies inside the orbit of Venus, 60,000,000 miles from the Sun, while its aphelion is 3.5 times farther away, well outside the orbit of Mars. The orbit of the asteroid thus crosses those of three planets (Venus, the Earth, and Mars), in which respect it is unique. The orbit plane is inclined 6° to the plane of the ecliptic. The period of revolution is 1.8 years, the shortest asteroid period known. At its nearest approach to the Earth, Reinmuth's asteroid is only about 6,000,000 miles away—less than the minimum distance of Delporte's asteroid and less than half that of Eros.

Both of these new asteroids are tiny—not over a mile or two in diameter, while Eros is about fifteen. Their orbits resemble those of many comets more than those of most asteroids, and in fact their nature was at first so much in doubt that they were referred to cautiously as "objects" -- Delporte's object and Reinmuth's object; but as they showed no tails or other cometary characteristics even when nearest the Earth and so most favorably seen, they are now definitely classed as asteroids.

A third remarkable asteroid was found by Van Biesbroeck at the Yerkes Observatory on July 30. It is noteworthy for its period of 2.0 years, which, with the exception of the periods of

Eros and Reinmuth's object, is the shortest known.

THE LEONID METEORS.

Leonid meteors in large numbers were observed in 1931, from November 13 to 18. The maximum occurred on the morning of November 17, when in localities near the Atlantic coast of North America the meteors were seen to flash at rates as high as four meteors per minute. Many were brighter than the planet Jupiter and left behind them luminous trains which were visible, in some cases, for several minutes. It is likely that a brighter display will occur about November 16 or 17 in 1932, and another about the same dates in 1933. For further details concerning these and other meteors, consult THE OLD FARMER'S ALMANAC for 1932.

PERIHELION AND APHELION.

Perihelion is the term applied to that point of an orbit which is nearest the Sun; aphelion, to the point which is most remote. In the orbits of comets, the aphelion distance is several times the perihelion distance or, in the case of parabolic orbits, the aphelion distance is infinite; but in the principal planetary orbits, which are nearly circular, the difference of the perihelion and aphelion distances is a small fraction of either. For example, the Earth is only about 3,000,000 miles nearer the Sun at perihelion than at aphelion—a trivial matter compared with its average distance of 92,900,000 miles.

To some, it is a matter of surprise that we have our coldest weather in January, when the Earth is near perihelion and 3,000,000 miles nearer the Sun than in July. These forget that our winter is only a local affair and that, in January, the southern hemisphere is having its hottest weather so that the temperature of the Earth as a whole is not very different in January and in July. The average temperature of the entire surface of the Earth is, in fact, a little higher in January than

in July, due to the 3% difference of distance.

There are two principal causes of the changes of season, either of which has a much greater effect on the temperature in any locality than has the change of the Earth's distance from the Sun from perihelion to aphelion. First, because the Sun in midwinter "runs lower" by about 47° than in midsummer, its rays fall much more slantingly upon the surface of the northern hemisphere in January than in July, so that in the former month the heat of a sunbeam is spread over a much greater area. It may be shown mathematically, for instance, that at noon on June 21, when the Sun "runs highest," a level area in New England receives heat from the Sun at more than twice the rate at which it receives heat at noon on December 22, when the Sun "runs lowest." Second, summer days in our latitude are several hours longer than winter days, so that in summer we receive heat for a longer time than in winter.

THE MOON'S DISTANCE.

The Moon's distance from the Earth ranges from a minimum of 221, 463 miles to a maximum of 252,710 miles. Its average distance is 238,857 miles, or 60.27 times the Earth's equatorial radius. This average distance is not the average of the maximum and minimum distances, as may be easily seen, but is the average of all the Moon's distances from the Earth during an entire revolution.

Perigee and apogee are the terms applied to the points of the Moon's orbit which are nearest to and farthest from the Earth, respectively. The perigee and apogee distances are nearly equal to the minimum and maximum distances given above; but are not always exactly equal to them because of perturbations which vary the size and shape of the Moon's orbit.

RECENT COMETS.

During the year which ended June 30, 1932, six new comets were discovered, and three periodic comets which had been discovered in previous years were detected as they returned to the vicinity of the Earth. Only one of these comets (Ryves's) was seen without optical aid, and it could be so observed only with difficulty. The nine comets of the year were as follows:

1. Comet 1931 b, discovered 1931 July 16 by Masuji Nagata, a Japanese fruit grower and amateur astronomer, near Brawley, California. It had passed perihelion on June 11, about five weeks

earlier, and if discovered at that time it would probably have been seen with the naked eye; but at the time of its actual discovery it was telescopic, being of about the seventh magnitude. It was of a yellow color and had a short tail. It became steadily fainter until October 6, when it suddenly brightened about a hundred fold; then it grew rapidly fainter and was lost, even to the largest telescopes, before the end of 1931. At perihelion it was 97,000,000 miles from the Sun. Its orbit is elliptic, with the long period of 267 years, and lies in a plane inclined 42° to the plane of the ecliptic. There is a possibility that this comet is identical with bright comets which are recorded as having been seen in the years 574 and 1092 A.D.

2. Comet 1931 c, discovered by the English amateur astronomer, Ryves at Zaragoza, Spain, 1931, August 10. This comet was faintly visible to the unaided eye and had a tail about a degree long, but remained so nearly in the direction of the Sun that observations of it were difficult. Orbit parabolic, inclined 10° to the plane of the ecliptic. Motion retrograde. Perihelion passage, 1931, August 25, at a distance of 7,000,000 miles from the Sun—the smallest perihelion distance of any comet that has appeared during the last forty years.

3. Neujmin's comet of 1913, detected by Nicholson with the 100-inch telescope of the Mount Wilson Observatory in California, 1931, August 20. Fifteenth magnitude, no tail. Orbit elliptic, period 18 years, inclination 15°. Perihelion passage, 1931, April 30, at a distance of 142,000,000 miles from the Sun.

4. Comet 1932 b, a ninth-magnitude comet discovered near the south celestial pole 1932, April 2, by two observers independently—Houghton at Capetown and Ensor at Pretoria, South Africa. Orbit parabolic, inclined 75° to the plane of the ecliptic. Perihelion passage 1932, February 29, at 116.000,000 miles from the Sun.

5. Comet 1932 c, discovered by Carrasco at Madrid, 1932, April 22. It then showed a tiny tail and was of the twelfth magnitude, but it rapidly became fainter and was lost to observation within a few weeks. Orbit parabolic; inclination 58°; perihelion passage 1931, November 30, at 218,000,00 miles from the Sun.

6. The Grigg-Skjellerup comet, detected by van Biesbroeck at the Yerkes Observatory, Wisconsin, 1932, April 28. Originally discovered by Grigg in 1902, but lost, and rediscovered by Skjellerup in 1922. The orbit is elliptic, and with the exception of that of Encke's comet the period (5.1 years) is the shortest known. Inclination of orbit plane to the ecliptic, 17°. Perihelion passage 1932, May 12, at a distance of 84,000,000 miles from the Sun. The comet was of the sixteenth magnitude and had no tail.

7. Kopff's periodic comet, originally discovered in 1902, detected by Bobone at Cordoba, Argentina, 1932, May 25. Though better situated than at its last previous return in 1926, the comet was still very small and faint. Perihelion passage 1932, August 21, at 158,000,000 miles from the Sun; inclination of orbit 90; period 6.6 years.

8. Comet 1932 f, discovered by Newman at the Lowell Observatory, Flagstaff, Arizona, 1932, June 1. The comet was of the twelfth magnitude and had a tiny tail. Orbit parabolic; inclination 78°; perihelion passage 1932, September 24, at 153,000,000 miles from the Sun.

9. Comet 1932 g, discovered by Geddes at Melbourne, Australia, 1932, June 22, when it was of the tenth magnitude and growing fainter. Orbit parabolic, motion retrograde, inclination 58°; perihelion passage 1932, October 26, at 178,000,000 miles from the Sun.

THE TOTAL SOLAR ECLIPSE OF 1932.

The total solar eclipse of August 31, 1932, the last which will be seen in New England in many years, was enjoyed by thousands of spectators stationed, principally, along the Maine coast. Observers farther inland were largely disappointed by cloudy weather, although at many localities some were favored by patches of clear sky. Parties of astronomers from many observatories in America, Europe, and Japan were distributed along the path of the Moon's shadow from Maine to northern Canada, but most of these were prevented by clouds from getting any observations. The finest view of the spectacle was undoubtedly that obtained by several observers who ascended in aeroplanes into the clear air at heights of 15,000 feet and more, and who reported seeing the Moon's shadow sweeping at amazing speed over the white clouds beneath.

The corona at this eclipse was of a form intermediate between that usually seen at eclipses which occur near sun-spot maximum and that at sun-spot minimum; from its brightest part, which formed a symmetrical ring around the Sun, there were faint extensions, the most conspicuous being a pennant-shaped streamer extending north-eastward from the Sun's equatorial zone to a length of more than three million miles. There were many of the famous red "prominences" which were conspicuous in the telescopic view, and some were so large as to be seen

by a number of observers with the unaided eye.

The eclipse was not quite "on time"; the last Baily's bead vanished about five seconds after the time of "second contact" computed some years previously at the American Nautical Almanac office.

FARMER'S RIGHTS REGARDING AVIATION. (Continued from page 21)

heights is not a trespass against the landowner. No definite height has been fixed by the courts, the test being that the airplane must stay above a level to which the landowner could use the space for reasonable purposes. Under this, flying in a city must, in order to avoid trespass, be higher than in the country. When an airplane collides with the Empire State Building the theory will indeed be tested.

JOSEPH J. HURLEY,

Professor, Boston College Law School Legal Advisor, Old Farmer's Almanac

RABBIT PROMOTIONS — A WARNING!

We gladly publish the following by request:

"Do not let the readers of your historic and revered OLD FARMERS ALMANAC invest their hard-earned savings in some of these Rabbit Promotion schemes that are springing up all over the country, putting out all sorts of alluring figures, without a thorough and searching investigation.

We shall be glad to send any OLD FARMERS ALMANAC subscriber, without charge, a copy of our leaflet, 'Rabbit Promotions'—a warning to the public about the pitfalls in popular 'Get Rich Quick' schemes."

Boston Better Business Bureau, 80 Summer Street, Boston, Mass.

TO PATRONS AND CORRESPONDENTS.

(Continued from page 2)

We are proud of our advertising section, representing as it does the leaders in American business life. THE OLD FARMER'S ALMANAC exercises a more rigid censorship of its advertising pages than any other American publication, accepting no medical, no questionable, no cheap advertising and no advertising in any way competing with the merchants of our local stores throughout New England.

GETTING MORE FERTILIZER FOR YOUR MONEY

While the title of this article is "Getting More Fertilizer for Your Money", it could just as well be "Getting Better Fertilizer for Your Money", for that is just what we farmers are doing today.

Since the war, some notable advances have been made in both the science and the art of fertilizer manufacture. Several marked tendencies have been manifest. One of these has been to devise and use higher grade materials and thus make it possible to produce the so-called "concentrated" or double-strength fertilizers; another has been to decrease the number of different brands or grades of fertilizers offered for sale; a third has been to eliminate the low-grade fertilizers, or those with only 15 or less units of plant food per ton, on which the farmer paid freight on a considerable quantity of worthless material; and a fourth, to lower the price of fertilizer and plant food elements to the farmer.

By means of new methods and processes which our fertilizer chemists have recently devised, we are now able to secure materials which contain two to three times the amount of nitrogen and phosphoric acid of those formerly used, and with these new materials our fertilizer men are fabricating the high-grade, concentrated mixtures which are proving both popular and economical.

For example, an 8-16-16 fertilizer could be purchased last spring in Boston for \$49.20 per ton; a 4-8-8, containing just half as much plant food, cost \$27.60 per ton, or \$55.20 for two tons. The farmer can secure the same amount of plant food in one ton of the 8-16-16 as he can in two tons of the 4-8-8, and will thus save \$6.00 in the cost of materials. Besides this, there will be a saving in freight on one ton of fertilizer, which usually amounts to about \$3.00, or a total saving of \$9.00 on the equivalent of two tons of fertilizer. Of course the farmer should apply only half as much per acre of the high-grade fertilizer because it is twice as strong as the 4-8-8.

Another most commendable thing that our fertilizer companies are doing is to decrease the number of different kinds and grades of fertilizer they are selling. For a long time there were so many different grades on the market that the farmer was confused as to just what grade would best suit his particular needs. It was a little like trying to select a couple of Christmas neckties from a big assortment. Now we have a relatively small number of standard grades from which to make our selection, which avoids confusion on our part and serves as an economy for the manufacturer. Again, too, the new fertilizer regulations require that the percentages of plant food in all mixed fertilizers shall be stated in whole numbers without any fractions or decimals. This also is in the interest of simplicity and economy.

Ever since commercial fertilizers have been on the market, there have been certain "low-grade" kinds carrying only 9 to 14 units of plant food per ton,—(a 2-8-3 for example). These are made up of the lower grade materials and always contain more or less filler or "make-weight". Since the costs of labor, bags and freight on these goods are just as great as on the high-grade goods, it is quite evident that the cost per pound of plant food in them will be greater than in the high-grade goods. In other words, if I have \$50.00 to spend for fertilizer, I am going to buy one ton of a \$50.00 grade rather than two tons of a \$25.00 grade, and then use only half as much per acre.

Surprising as it may seem, mixed fertilizers are about as cheap and some fertilizing materials like sulphate of ammonia are cheaper than they were before the war. In mixed car lots farmers can now buy nitrogen in the form of ammonia delivered at their stations for 10 cents a pound, phosphoric acid for $5\frac{1}{2}$ cents, and potash for a little less than 5 cents.

If the farmer has the cash or can secure credit at a reasonable rate, he should not curtail his fertilizer supplies at current prices. Ample fertilization is one of the best forms of crop insurance, as was demonstrated last year by John R. Jackson up at Colebrook, N. H., who won the potato club contest with a yield of 506 bushels per acre. Mr. Jackson used one ton of a 5-8-7 fertilizer and one-half ton of superphosphate per acre. What we need today in our agriculture for cconomic production is fewer acres well tilled and better fertilized.

Perhaps the most important recent change to be made in our fertilizer practice is discarding the old custom of expressing the nitrogen content of our fertilizers in terms of ammonia. This change became effective in all the New England States and in six other Northeastern States January 1, 1932. We used to read our fertilizer guarantee on the bag something like this:—Nitrogen 4.1%; equivalent to Ammonia 5%. This dual statement was always confusing since many people thought it meant 4.1% of nitrogen and in addition 5% of ammonia. Our old friend Ammonia is no longer in the line-up, and nitrogen will be guaranteed as nitrogen only.

In most cases the new grades of fertilizer will contain the same percentage of nitrogen that they formerly contained of ammonia. This means that the farmers will get about one-fifth more nitrogen than they have been accustomed to getting, and we hope for the same price.

NEW METHODS OF MAKING HAY

Some new and interesting methods of making have been invented since that poetic period when,

"Maud Miller on a summer day, Raked the meadows sweet with hay."

The first and perhaps the most practical of these new methods is chopping from the field. The hay is cut, cured, raked and loaded in the field as usual. The load is drawn to the barn where the hay is fed by two pitchers to a large chopper, which cuts and blows it directly into the hay mow.

The chopper, which may also be used for cutting ensilage, is simply an enlarged ensilage cutter with one to three spiked rollers to assist in feeding the hay to the knives. The blower distributor pipe is swiveled so that it may be directed to different parts of the mow at intervals, thus making it unnecessary to have any men storing the hay away in the heat of a hot hay mow.

It has been found that chopped hay requires only from two-thirds to one-half the space for storage as does uncut hay. This means that the farmer who cuts his hay increases his storage capacity from 50 to 100 per cent. The chopped hay is easily forked and handled. Enough long pieces go through the chopper to act as a binder for a good forkful, so that tearing apart is not necessary.

It is claimed that storing hay in chopped form materially reduces the fire hazard. Chopped hay packs so much closer that the circulation of air through the hay is retarded to such an extent that there is not a sufficient supply of oxygen to cause spontaneous combustion. Some careful comparative tests have been made at the various stages of heating of both chopped and uncut hay which had received the same amount of curing and the same type of storage. At no period did the temperature of the chopped hay exceed that of the uncut.

It is also important to note that in chopping, the occasional uncured bunches are thoroughly mixed with the drier portions which absorb the excess moisture and thus prevent the mouldy spots which we sometimes find in stored hay, particularly clover.

Present evidence scems to indicate that all classes of livestock relish the chopped hay just as much as the uncut of the same kind and quality. In fact, it has been found that the cattle clean up the cut hay better than the uncut so that less waste of the coarser stems finds its way to the bodding and manure.

The choppers may be operated by gas engines, tractors or electric motors. About the same amount of power is required as for cutting ensilage. The larger choppers, however, require more power, 15 to 25 H.P., than the ordinary ensilage cutters.

Storing hay by the chopping method costs about the same as the common method of unloading with a hay fork. The extra cost of 15 to 20 cents per ton for gas and oil is offset by the saving in man power over the common method. The chopping is somewhat faster than the fork method, as only 10 to 15 minutes is required to cut and blow a tou. The farmer who has 100 tons or more of hay to store every year should investigate this new chopping method.

The second new method of making hay is the artificial drying process. The main advantage of artificial drying is that it removes the weather hazard, and in most cases will produce a better quality of hay, that is, one higher in protein because practically all the leaves and finer stems are saved.

There are several types of these driers on the market and they vary greatly in size and capacity. One of the more common types is the rotary, direct-drying type with a capacity of one ton of water evaporated per hour. This, by the way, would be considered a small machine.

The green material, after being run through an ordinary ensilage cutter, is blown directly into the drying drum where it comes in contact with the hot gases of combustion from the furnace or oven. Inside the outer drum, which is about six feet in diameter and 16 feet long, are two smaller concentric ones. The green material, along with the gases, is drawn through by suction, first going through the smaller drum, then back through an intermediate one, and finally making a third trip next to the outer drum. After going through the fan, it passes a dust collector and from there into a large hopper ready for bagging.

With the type of drier in question, two power units are required, one of 7 or 8 H.P. to run the cutter and one of 15 H.P. to operate the fan, drum, fuel oil pump and air pump. Either tractors or electric motors may be used as a source of power.

For heating the drying gases, fuel oil is used, the average consumption being about 31 gallons per ton of water evaporated, or from 40 to 50 gallons per ton of dried hay secured. The fuel consumption varies rather widely with the different materials and with their degree of wetness. Drying alfalfa during rainy spells required as much as 70 to 95 gallons of oil per ton of hay.

Since the green material comes in contact with the gases at a temperature of 1,000 to 1,100 degrees, there is always some fire risk. Care must be taken to prevent the dried material from being forced back into the hottest gases and becoming overheated.

At the present time the artificial method of drying hay is too expensive for the average farmer. He will have to depend upon old Sol and the wind for some years to come. The method, however, does have possibilities for development for large scale production in certain sections of the country where haying is a hazardous job.

SOME TIMELY GARDEN HINTS

A recent interesting development for the home gardener is the electric hot bed. The advantages of this device are its cleanliness and the ease with which it may be operated. The heat is supplied by an electrical lead-covered heating cable which costs less than three dollars for a two-sash bed. A thermostat may be used to regulate the heat, although it is rather expensive and not necessary if one is careful in turning the

current on and off. The amount of energy used is from two to four kilowatts per sash per day, depending upon the outside temperature.

The grower of muskmelons, cucumbers, squash, and other vine crops will find that plant protectors made of special waxed paper with wire arches are a great help in the early maturing of these crops. The seed may be planted under the protectors three to four weeks earlier than usual. The protectors should remain over the hills until the plants completely fill them and danger of frost is past. Usually the best time to plant is around May 1st.

Peat moss has been found a rather effective substitute for manure in many gardens. While it contains very little fertilizing material, it lightens the soil and prevents moisture loss.

Home gardeners have not learned how to properly fight flea beetles, cucumber beetles, squash bugs, celery blight, and cucumber scab. They will do well to buy rotary dusters and dust their crops at least once a week. Dusting is much simpler than spraying. The dust used is made up of one part powdered copper sulphate and four parts of chemically hydrated lime. If a poison dust is wanted to control leafeating insects, it should be made of one pound of copper sulphate, one-half pound arsenate of lead, and three and one-half pounds of chemically hydrated lime. If the prepared dust is to be bought, get what is known as a 20-80 dust. All dusting should be done while the dew is on the plants, before seven in the morning or after seven at night.

Among the new tomatoes on the market is the variety known as the Prichard. It shows promise of being valuable for the home garden.

Among other new varieties of vegetables well worth trying are Spanish Gold, a very early, high-quality sweet corn; Harris Earliest pepper; Most Prolific early pepper; Tender Sweet and Perfection carrots; Golden Phenomenal and Salt Lake celery, and Bison Tomato. The latter is an extremely early tomato.

When do you kill the weeds in your garden? If you kill them as soon as they get started, the job is easy and the labor of keeping the garden free from them is comparatively simple, but if you wait until they have made some growth they will starve out your crops and you will have to put in four to five times as much effort in destroying them as you would have earlier.

Should vegetables like cucumbers, melons, corn, and beans be planted in hills or in drills? This is a question often asked the vegetable specialist. While there are some advantages in the hill method, especially in the matter of hoeing and cross cultivation, certainly each plant will have a much better individual chance if it is all by itself, six inches or more from its neighbor plant. Cucumber growers are spacing their plants a foot apart instead of allowing four plants to grow in a hill four feet apart. Perhaps for the home garden, plants spaced equally in a drill are preferable to those in hills.

The asparagus beetle may be controlled by allowing a few asparagus plants to grow and keeping them covered with arsenate of lead.

The rose chafer has done considerable damage during the last few seasons. Hand picking on a small scale or spraying the crop with sweetened arsenate of lead are control measures recommended. They are not entirely satisfactory.

While many home gardeners use salt on their asparagus, this practice is not recommended by experimental evidence. Probably the only value of salt is as a weed killer. Why not kill the weeds by cultivation rather than with salt?

Pea blight has done a great deal of damage in backyard gardens. Apparently this disease can be controlled only by planting peas in soil which has not grown the crop for at least eight or ten years. Once the disease is in the soil, it is difficult to eradicate.

Home gardeners often have difficulty in growing good spinach, yet spinach is rather easy to grow if the following precautions are observed. First, lime the soil heavily. Use at least one pound of lime to 20 feet of row. Second, plant the seed early before the first of May, if possible, in a well prepared seed bed. Third, enrich the soil with manure or commercial fertilizer so that the spinach has plenty of food to grow on.

The small garden tractor is an easy way of cultivating a garden of an acre or more. People who are interested in machinery usually have excellent success with them, while those who cannot handle machinery are likely to make a failure of tractor cultivation.

The Howard Supreme strawberry is a new variety giving excellent results. It is an imperfect berry and must be planted with a perfect variety. Howard 17 and Howard Supreme planted in alternate rows should prove satisfactory.

Among the newer varieties of raspberries, the Chief and the Viking come highly recommended. Both are hardy and partially resistant to mosaic disease which has proved so disastrous to that grand old variety, Cuthbert. Mosaic disease on raspberries may be recognized by the puckery drawn-in appearance on the leaves. It is carried from plant to plant by means of insects. If you have any suspicion of mosaic disease in your garden, pull up the plants and destroy them. There is no cure for mosaic disease.

A home gardener in central New Hampshire grows peanuts, okra, eggplant, sweet and hot peppers, black-eyed pea beans, watermelons, and muskmelons in her garden. While these are by no means commercial crops in this section of the country, it certainly adds to the fun of gardening to try out new plants.

Among peculiar practices found in home gardens is the planting of nasturtiums in hills of cucumbers to keep off the cucumber beetle. If this method were satisfactory, it would be a very easy way of getting rid of a troublesome pest but most of us will prefer to keep the plant well dusted with a poisonous Bordeaux mixture.

Many people cut off the leaves of tomato plants to thicken the stem or force the growth into the fruit. When it is realized that the digestive organs of the plant are in the leaves, that the food that constitutes the fruit, etc., is manufactured almost entirely in the leaves, the foolishness of this practice may be understood.

Many home gardeners use salt on cabbage leaves to control cabbage worm. This is not a recommended practice. It is much better to make a mixture of lime and arsenate of lead, using 10 per cent lime, and dust the plants with this mixture as often as necessary. There need be no fear of poisoning the cabbage because the head grows entirely from the inside.

Many home gardeners hill up root crops like onions, beets, carrots, and parsnips. This is not a good practice. Covering the bulbs of these crops with soil tends to injure their growth considerably.

Many home gardeners still insist on planting celery in trenches. This is a very foolish practice considering that it is almost impossible to weed and cultivate such celery, that the soil washes in during a heavy rain and that one is very likely to plant the celery in the poor subsoil. Celery should be planted on the surface of the soil, six to eight inches apart, and handled the same as lettuce or any other crop.

HOUSEHOLD HINTS-1933.

Have your beds fitted with rubber tired castors. They will move casily to get the best air and will not scratch the floors.

Find a place for a large waste basket in your kitchen. It will save many steps when the marketing is being put away.

Keep a bread board and knife handy to your bread box. It will save

many minutes if it does not have to be hunted.

A wax finish on the kitchen linoleum makes it possible to wipe up spills easily with a bit of paper and the floor will need to be cleaned

spills easily with a bit of paper and the floor will need to be cleaned less often.

Wash silk stockings before wearing with a mild soon—and always

Wash silk stockings before wearing—with a mild soap—and always rinse in clean water to which a little vinegar has been added. They will wear longer.

Clean your white hat with corn meal dampened with lemon juice. Spread it on, let it stand an hour or more, and then brush off with a clean brush.

Leather pocketbooks of any color can be cleaned and made to look new by using the shoe cream which is sold for cleaning shoes of the corresponding color.

Contrary to the usual opinion, a wet umbrella should dry *closed*. Set it with the handle down. This prevents the cover from being stretched and rust forming where the ribs are joined together.

Apply a little ordinary floor wax to the woodwork around the pulls of drawers and cupboards where the luster has been lost by numerons washings and at the same time save future washings by protecting these areas from soiled fingers.

If you have trouble in making candles fit securely in their holders, try pouring hot water into the candle bowl of the candle stick, let it stand to heat the holder, pour out the water and put the candle in place immediately. If one application of water does not heat it sufficiently repeat the process.

Cardboard boxes, books, and other bulky objects in an overcrowded drawer often accidentally shift around in such a way that the drawer cannot be opened. At such times it is always difficult to find something that is at once thin enough to enter the crack at the top of the drawer and strong enough to press down the obstruction. There is nothing better for this than the common kitchen spatula. It is thin enough to enter a very narrow opening, yet sufficiently stiff to hold down the misplaced object long enough for the drawer to be pulled open.

To save time in cooking, especially on coal, wood or electric stoves, use flat-bottomed sauce pans or kettles with lids that fit tightly.

Try using sour cream in your omelette in place of milk. You will like its delicacy.

To clean oven-browned pie dishes, soak them in a strong solution of pure borax and water.

When you burn a cake, forget about it until it is thoroughly cold. Then take the lemon grater and run it over the burnt spot. It will scrape all the burn off and leave the cake smooth and ready for the icing.

If your bread for sandwiches is too fresh to slice easily place it in the refrigerator to get thoroughly cold. This will harden it just enough to make thin slicing possible.

To keep the white color of cauliflower add vinegar or lemon juice to the cooking water—about a tablespoonful to each quart of water. Do not cover the kettle.

If your cakes are coarse grained try reducing the proportion of baking powder. Many kinds on the market require a smaller amount than old-time recipes call for.

To remove grease and grime from the hands, try adding a little sugar to the soap lather. The dirt will disappear like magic, leaving the hands soft and white. For this purpose it is well to keep the sugar in a tin can or a mayonnaise jar, the lid of which has been perforated. The sugar then can be shaken out without danger of wetting the contents of the can or jar and without loss of time.

Try serving a fruit cocktail made of melon balls in maple syrup.

CHARADES

-

My first, on Nature's application Will emphasize a man's relation To all his fellow men.

And when a fellow is my second A breach of sportsmanship 'tis reckoned

To jump on him again.

This is particularly true

When after breaking hre

When, after breaking bravely through

The adversary's line,

And fighting fiercely for my whole, Across the line that marks the goal A hero lies supine.

L. B. R. Briggs

 2

My first by bards unhonored and unsung,

But daily on my fireside comrade's tongue.

Even as of old, since world and time began,

My lovely second rules the heart of man.

My whole, a humble, happy life be thine—

And the glad meadows, and the lowing kine.

L. B. R. Briggs

3

With my first (a "quarter") Tip the Pullman porter. How my second feels Other people's heels! On my whole I stepped While my neighbor slept.

L. B. R. Briggs

4 My First

I try to take the place of locks, Deficiencies concealing.

My Second

I love a hoax and practical jokes With little regard to feeling.

My Whole

To and fro my flag shall go
So long as the soldiers need it;
The task is mine to give the sign,
And theirs the task to heed it.

L. B. R. Briggs

5

If you're a certain kind of monk Or Highbrow, you my First may wear;

Then look among the chimney tops
And see them in a plenty there;

While if the one at your fireside Should seem to you a trifle sooty,

Remember it is there for use
And very seldom for its beauty.

It's not good form to tip my next
If you are proud and haughty,
But of a summer afternoon

You'd be excused if you took forty.

There are some rare occasions when My Whole perhaps is justified; But as a rule its practice should

Emphatically be decried.

Mary Russell Hodge

6

My First:

When winter winds blow cold and bleak,

Then seek me on the mountain side;

I'll gladly come and do my part To glorify your Christmas-tide.

My Second:

I'm useful, beautiful and strong; I'm sometimes cheap but oftener dear:

In every home I'm always found,
To every hearth I bring good
cheer.

My Whole:

My cloud capped towers, my gorgeous palaces,

My solemn temples and my donjon keeps,

My mountains, rivers, seas and placid lakes,

Canyons and beetling cliffs and vasty deeps,

Where over and through all by night and day

The stars hold undisputed sway; All these and many amazing things

beside
You'll see if you examine my in-

Mary Russell Hodge

ANSWERS TO CHARADES IN LAST YEAR'S ALMANAC.

side.

- 1. Nightmare.
- 2. Bookworm.

- 3. Hammock.
- 4. Bobolink.

THE AUTOMOBILE IN NEW ENGLAND.

The laws and regulations relating to the operation of motor vehicles are subject to frequent changes, and some may possibly occur after the time of our going to press.

These laws are taken from State Law books and substantiated by the Registrar of Automobiles in each New England State in October, 1932.

MAINE

- CAR REGISTRATION: With Secretary of State. Expires December 31. May be used until March 1.
- FEES: 25 cents per horse power; also 25 cents for each 100 pounds of weight and 50 cents if tires are solid. Between Sept. 1 and December 31 half-fee.
- Driver's License: To persons 15 or over, if application is signed by either parent, or, if without parents, by employer. Fee \$2. Expires Dec. 31; chauffeur's license to persons over 18, fee \$3.00.
- Lights: From half hour after sunset to half hour before sunrise. Must conform to regulations of Secretary of State. If vehicle is so constructed or controlled that it can exceed a speed of 15 miles per hour, its front lamps must render discernible objects 200 feet ahead on level road and at the same time at least 7 feet to the right of the axis of the vehicle for 100 feet. No part of the light beam when projected 75 feet or more ahead of lamps is to be more than 42 inches higher than surface on which vehicle stands. If vehicle is so constructed or controlled that it cannot exceed a speed of 15 miles per hour, the requirements are less.
- Speed: 15 miles per hour when passing a school at recess or during opening and closing periods and when approaching within 50 ft. of an intersection. 25 miles per hour in business and built-up portions and 35 miles an hour in most other places. Speed must be reasonable and proper.
- Non-Residents: Motor vehicles, trucks, tractors and trailers, weighing 1½ tons or less, may be operated without a Maine registration or license if properly registered in a home state, which gives Maine residents same privileges.
- Motor Trucks: Registration fees: \$10 on 1000 pounds or less capacity to \$150 on more than five tons.
- Insurance: In case of conviction of violation of certain sections of the automobile law, proof of financial responsibility required; right to operate suspended until it is. Such proof may be evidence of insurance or bond or money or collateral.

NEW HAMPSHIRE

- CAR REGISTRATION: With the Commissioner of Motor Vehicles. Expires December 31.
- FEES: Vehicles equipped with pneumatic tires, not exceeding 4000 pounds, 35 cents per 100 pounds. The fees increase with weight until they reach 60 cents per 100 pounds on weights of over 8000 pounds. For all vehicles with hard rubber tires 20 cents per 100 pounds is added to the above rates. For all vehicles with iron, steel or other hard tires 40 cents per 100 pounds is added to the above rates. The minimum fee is \$10 for a passenger vehicle. No motor vehicle owned or controlled by a resident may be registered without a permit from the city or town where such owner resides. Fee for permit varies from 17 mills to 3 mills per \$1 of list price according to year of manufacture, and not exceeding \$10 in all. Exemption where applicant for permit has been assessed on property used in purchase of car.
- Driver's License: Persons 16 or over. Original license and examination, \$3. Expires December 31; renewals, \$2; chauffeur's license to persons over 18. Fee, \$5; renewals, \$2.

- Non-Resident Owner: A non-resident owner of a motor vehicle which is used solely for pleasure and is not used for carrying passengers or property for a profit or for hire, and which has been duly registered for the current year in the state or country of which the owner is a resident, and in accordance with the laws thereof shall not be required to register such motor vehicle in this state.
- Operator's License: No owner of such motor vehicle and no non-resident chauffeur or driver of such vehicle who is the holder of a license to drive such vehicle in the state or country in which he resides shall be required to purchase a license to drive such vehicle within this state.
- Lights: Between half hour after sunset and half hour before sunrise. Lights from front lamps to be visible at least 200 feet in the direction in which the vehicle is proceeding. Headlights must have dimmers.
- Speed: Prima facie unlawful if exceeding 15 miles an hour passing schools, at intersecting streets, on curves and grades where view is obstructed, and in business districts where there are no traffic officers or signals; exceeding 20 miles on other highways in business districts, or in residence districts; exceeding 35 miles elsewhere.

VERMONT

- CAR REGISTRATION: With Commissioner of Motor Vehicles. Expires December 31.
- FEES: Motor vehicles of the pleasure type weighing 2000 pounds or less the fee is \$16; from 2000 pounds to 2500 pounds inclusive, \$19; 2500 pounds to 3000 pounds inclusive, \$23; 3000 pounds to 3500 pounds inclusive, \$28; 3500 pounds to 4000 pounds inclusive, \$33; 4000 pounds to 4500 pounds inclusive, \$38; 4500 pounds or more, \$43. Manufacturer's weight, available, to be accepted.
- Driver's License: To persons 18 or over. Junior's license to persons 16 and 17, \$2.50. After Aug. 1, one half fee.
- Lights: From half hour after sunset to half hour before sunrise. Rear lights must render figures on number plate visible 50 feet to the rear. Front lights must render a substantial object on the ground clearly visible 150 feet ahead. A lighting device of over four candle power, equipped with a reflector, must not be used unless the light-beam 75 feet ahead shall not rise more than six inches above the height of the bulb, and in no event more than 42 inches above the level surface of the road.
- Speed: A motor vehicle shall not be operated on a public highway, as defined in this act, in a careless or negligent manner, nor upon a bet, wager or race, nor for the purpose of making a record, nor in a manner to endanger or jeopardize the safety, life or property of any person. Nothing herein contained shall be so construed as to affect the rights of the selectmen of a town or the proper officials of a city or incorporated village, to make special regulations as to the speed of such motor vehicles upon narrow or dangerous roads or ways, nor to limit the speed of motor vehicles in city or village streets provided such limit is fixed at not less than twenty miles per hour.
- Non-Residents: Non-residents who comply with the laws of their home state as to registration and license are exempt from the requirements of the Vermont Law in this respect to the extent that like privileges are granted in home state. Non-residents may register in Vermont for a period of four months at one-half of the regular fee.
- Motor Trucks: Registration fees: 60 cents per 100 pounds if weight not over 6000 pounds. The fee increases with weight, the maximum being 90 cents when the weight is over 13,000 pounds. Minimum fee to be \$25. Half rates for registration between August 1 and November 15, and quarter rates after November 15. Motor vehicles of 16,000

pounds gross weight limit of load permitted on town roads; 20,000 lbs. on state aid roads is limit allowed unless a permit is obtained from the State Highway Department. Non-resident trucks with manufacturer's rated capacity above 3000 lbs. must be registered in Vermont if operated on Vermont highways unless a permit is obtained before entry. Trucks of two tons or less not to be operated more than 25 miles per hour; if over two tons, not more than 20 miles per hour; if over 4 tons, not more than 10 miles per hour on a highway. Motor trucks and trailers not to exceed 8 feet in width or 12 feet in height and must be equipped with mirror.

Insurance: Any person convicted of violating sections 86, 87, 88 and 91 of the Motor Vehicles Act, and any person whose motor vehicle is involved in an accident when it appears to the Commissioner that the operator was at fault must furnish proof of financial ability to respond in damages or lose his right to operate. Such proof may be evidence of insurance in an authorized insurance company or a bond.

MASSACHUSETTS

- CAR REGISTRATION: Annually with Massachusetts Registrar of Motor Vehicles. Expires December 31.
- FEES: Less than 30 horse power, \$10 when non gasoline driven and \$3 when gasoline driven; 30 to 40 horse power, \$15 when non gasoline driven and \$4.50 when gasoline driven; 40 to 50 horse power, \$20 when non gasoline driven and \$6 when gasoline driven; 50 horse power or more, \$25 when non gasoline driven and \$7.50 when gasoline driven. From October 1 to December 31 half fee.

For every gasoline driven automobile used for the transportation of goods, wares or merchandise, 15 cents for every hundred pounds of the weight of such vehicle and of its carrying capacity, but in no event less than \$6.

- Driver's License: To persons 16 and over. Fee \$2. Valid one year from date of issue. First examination \$2, subsequent examination \$1.
- Lights: Between half hour after sunset and half hour before sunrise. Front lights must show 200 feet, must have red light showing in rear and white light illuminating the registration number. No head lamp without a lens approved by the Registrar to prevent glaring rays.
- Speed Limits.—Section 17. No person operating a motor vehicle on any way shall run it at a rate of speed greater than is reasonable and proper, having regard to traffic and the use of the way and the safety of the public. In general a car shall be operated 15 miles an hour in turning corners, in the thickly settled districts, such as the cities, the speed is 20 miles an hour and for the outlying sections, such as State highways, the speed is 30 miles an hour. Good judgment and the safety of the public are the best guides to proper speed.
- Non-Residents: A non-resident may operate in this state 30 days if he is properly registered in his home State. At the expiration of 30 days he must apply to the registry for a permission to operate longer. This permission will be granted without charge if the owner of the car submits evidence of financial responsibility or liability insurance such as is imposed by Mass. on its owners.
- INSURANCE: Compulsory. Motor vehicles cannot be now registered in Massachusetts without being insured to cover personal injuries.

RHODE ISLAND

CAR REGISTRATION: With the State Board of Public Roads. Expires December 31.

FEES: Automobiles with pneumatic tires, minimum fee \$8 for gross weight of 2500 pounds or less. The fee increases with the gross weight. For cars whose gross weight is more than 6000 pounds the fee is \$23.

MOTOR TRUCK OR TRACTOR WITH PNEUMATIC TIRES: The fee varies with the gross weight. The minimum fee for vehicles whose gross weight is 3000 pounds or less, is \$12.50 and for vehicles whose gross weight is more than 28,000 pounds it is \$100.

For the registration of every automobile, motor truck or tractor, when equipped with other than pneumatic tires, there shall be added to the above gross weight fees a charge of ten cents for each one hundred pounds of such gross weight.

Driver's License: To persons 16 or over. Examination required. License or renewals, \$2. Valid one year from date of issue.

LIGHTS: From one-half hour after sunset to one-half hour before sunrise. Headlights must illuminate objects 200 feet ahead. Register number

must be visible sixty feet to the rear.

Speed: No person shall operate a motor vehicle upon the public highways recklessly or at a rate of speed greater than is reasonable or proper, having due regard to the width, street intersections, conditions, traffic, weather or use of such highways, or so as to endanger property or the life or limb of any person. 20 miles per hour in thickly settled sections and 35 miles per hour elsewhere.

CONNECTICUT

CAR REGISTRATION: With the Commissioner of Motor Vehicles. Expires December 31.

A pro rata reduction is allowed on applica-FEES: Minimum fce, \$15. The minimum fee for pro rated registration tions for registration. is \$3.

Driver's License: To persons 16 or over upon examination. Expires last day of February. Fee for license, \$3. For examination, \$2.

LIGHTS: From half hour after sunset to one-half hour before sunrise, and when smoke or weather conditions make it impossible to see 200 feet ahead. Headlights must be visible for 500 feet in clear weather and the top of the lights not over 56 inches from the ground. Must have a redlight behind and a white light which illuminates number plates.

Speed: Motor vehicles must be operated at a speed that is reasonable. having regard to width, traffic and use of the highway, intersection of

streets and weather conditions.

Non-Residents: A non-resident over 16 years of age, who has complied with the laws of his state or country, may operate without Connecticut registration or license for the same period allowed Connecticut cars in his home state or country. Reciprocity is not extended to licensed operators of the State of New York unless they are at least eighteen years of age. A non-resident cannot operate in Connecticut any vehicle carrying passengers for hire unless he and the car are licensed in Connecticut. A non-resident cannot operate in Connecticut a commercial vehicle which carries a greater pay load than would be allowed for the same vehicle if registered in Connecticut.

MOTOR TRUCKS: Registration fees: Having pneumatic tires on all surfaces in contact with the ground, the fee is \$15.00 on trucks of ½ ton or less capacity with increased fees for each half-ton of increased capacity. For a 7-ton capacity the fee is \$292.50.

Having solid rubber or cushion tires wholly or in part, the fee is \$30.00 on trucks of ½ ton or less capacity with increased fees for each half-ton of increased capacity. For a 7-ton capacity the fee is \$350.00.

Insurance: Any person convicted of violating certain specified sections of the law relating to motor vehicles, must furnish the Commissioner with proof of financial ability to respond in damages or lose his right to operate. Such proof may be evidence of insurance or a bond or the deposit of money or collateral.

POETRY, ANECDOTES AND PLEASANTRIES.

THE FRIGATE CONSTITUTION (Old Ironsides)

The most historic and revered ship in the world today.

She won more battles, captured more prizes, sailed more miles, trained more navy officers and actual seamen than any other ship in the world, and doing this received less injury and sustained fewer losses than can compare with her in amount and call of service.

This beloved United States battleship fought in forty-two battles and won all of them.

In 1830 when this frigate was to be broken up as unfit for service, the following poem was written by Oliver Wendell Holmes.

Ay, tear her tatter'd ensign down!
Long has it waved on high,
And many an eye has danced to see
That banner in the sky;
Beneath it rung the battle-shout,
And burst the cannon's roar;
The meteor of the ocean air
Shall sweep the clouds no more!

Her deck, once red with heroes' blood,
Where knelt the vanquish'd foe,
When winds were hurrying o'er the flood,
And waves were white below,
No more shall feel the victor's tread,
Or know the conquer'd knee;
The harpies of the shore shall pluck
The eagle of the sea!

O, better that her shatter'd hulk Should sink beneath the wave; Her thunders shook the mighty deep, And there should be her grave; Nail to the mast ber holy flag, Set every threadbare sail, And give her to the god of storms,—The lightning and the gale!

Oliver W. Holmes.

The citizens and school children of America rallied to the cause and saved the ship.

In 1930 when the American Legion National Convention was held in Boston, "Old Ironsides," then restored and reequipped, was rededicated. The Legion in their endeavor to pay tribute to this historic vessel met great opposition in certain quarters, but with the backing of the President of the United

States and other high naval officials, they carried out their program.

The old ship was moved down Boston Harbor through two lines of modern battle-ships of the North Atlantic fleet—each ship with all colors flying; with all officers and men standing at salute on their decks; with every band playing "The Star Spangled Banner" and every gun booming a twenty-one gun salute.

Aviators flew over "Old Ironsides" dropping flowers from the air.

From her deck a program of music and speeches by some of the greatest men of our time, telling her wonderful history, was broadcast across this country from coast to coast.

THE BACKWOODSMAN

The silent wilderness for me!
Where never sound is heard,
Save the rustling of the squirrel's foot,
And the flitting wing of bird,
Or its low and interrupted note,
And the deer's quick crackling tread

And the deer's quick, crackling tread, And the swaying of the forest boughs, As the wind moves overhead.

I look around to where the sky
Meets the far forest line,
And this imperial domain—
This kingdom—all is mine.
This bending heaven, these floating clouds,
Waters that ever roll,
And wilderness of glory, bring
Their offerings to my soul.

My star-watch'd couch I press,
I hear no fond "good-night"— think not
I am companionless.
O, no! I see my father's house,
The hill, the tree, the stream,

Though when in this my lonely home.

The hill, the tree, the stream,
And the looks and voices of my home
Come gently to my dream.

And in these solitary haunts,
While slumbers every tree
In night and silence, GOD himself
Seems nearer unto me.
I feel HIS presence in these shades,
Like the embracing air;

And as my eyelids close in sleep, My heart is hush'd in prayer.

Ephraim Peabody.

NEW ENGLAND

My dear, my loved New Eng-

With rivers, groves and sea. Your children thrill with love for you

Wherever they may be.

Your quaint and rambling byways

Of picturesque Cape Cod. Your smooth and level highways

All edged with emerald sod.

Your forests deep, of pine trees, Like dim cathedrals stand. Your sparkling lakes beneath

the breeze Ripple on snow-white sand.

Oh, loved and dear New England,

Where'er your children roam. These six States of the Union Are another name for home. -Russell's Rhoda.

Samson was a strong man yet could not pay money before he had it .- Proverb.

MAIN STREET

I like to look at the blossomy track of the moon upon the sea.

But it isn't half so fine a sight as Main Street used to be

When it all was covered over with a couple of feet of snow, And over the crisp and radiant road the ringing sleighs would go.

Now, Main Street, bordered with autumn leaves, it was a pleasant thing,

And its gutters were gay with dandelions early in the Spring;

I like to think of it white with frost or dusty in the heat,

Because I think it is humaner than any other street.

A city street that is busy and wide is ground by a thousand wheels.

And a burden of traffic on its breast is all it ever feels:

It is dully conscious of weight and speed and of work that never ends,

But it cannot be human like Main Street, and recognise its friends.

There were only about a hundred teams on Main Street in a day,

And twent'y or thirty people, I guess, and some children out to play.

And there wasn't a wagon or buggy, or a man or a girl or a boy

That Main Street didn't remember, and somehow seem to enjoy.

The truck and the motor and trolley car and the elevated

They make the weary street reverberate with pain:

But there is yet an echo left deep down within my heart

Of the music the Main Street cobblestones made beneath a butcher's cart.

God be thanked for the Milky Way that runs across the sky,

That's the path that my feet would tread whenever I have to die.

Some folks call it a Silver Sword, and some a Pearly Crown,

But the only thing I think it is, is Main Street, Heaventown. —Joyce Kilmer.

Truth is as impossible to be soiled by the outward touch as the sunbeam .- Milton.

Things Our Ancestors Laughed At 141 Years Ago

A CLERGYMAN observed to his friend, that upon the last Sabbath, he was much turbed by a Cow, who looked in at the door, and bellowed in his face. Sir, says the other, a Calf has no right in the Pulpit.
—Old Farmers' Almanac, 1793.

A JUSTICE of the Peace, remarked to a Clergyman who rode on elegant horse, that he was prouder than his master. Why really, Sir, reforted the Parson, so many asses have been converted of late, into Justices, that I could not find one to ride upon.

-Old Farmers' Almanac, 1793.

John Bunker and Bill Springer owned adjoining farms up New Hampshire way and were great friends until certain happenings in connection with their livestock caused much trouble and a serious

feud sprang up.

In that year there was an epidemic of kidnaping through an influx of a foreign element and one gang, (only knowing about the old friendship) wrote a black-hand letter to Bill Springer saying, "Send us \$5,000 at once or we shall kidnap your neighbor, John Bunker."

Bill wrote right back to the secret address given, saying, "Yours received. Sorry I haven't got that much money, but I am very much interested in your proposition."

In a certain town of Northern Vermont a group of young people having put on successfully one of the old-time dramas decided they would go on the road and make a tour of the state.

They returned home rather unexpectedly and on their arrival one of the selectmen who met them asked, "Did you play Burlington?"

"Oh yes!" answered the leading man, "we played Burlington."

Selectman: "Did you have a long run?"

Leading man: "No, they only chased us ten miles."

AN old continental arrived at an inn, and asked for refreshment. The hostess set before him a bone of ham, and crust Her son, who had of bread. been an officer, gave the poor fellow a shilling when he had and done picking, bid him Soon after the old march off. woman comes in, to look for her pay. Mother, says the officer, what might the picking that bone be worth? - Why about one and six pence, these Well, cries hard times. the humane son, I have made a fine bargain, and saved six pence, for I gave him but a shilling to pick the whole.

—Old Farmer's Almanac, 1793.

Medic: The right leg of the patient is shorter than the left, which causes him to limp. Now what would you do in a case of this kind?

Voice (from rear of class-room): Doc, I'd limp, too.

-College Humor.

Professor: I would like a preparation of phenylisothiocyanate.

Drug Clerk: Do you mean mustard oil?

Professor: Yes, I can never think of that name.

—Coe Zip 'N Tang.

Byron swam the Hellespont, Ederle the English channel, I merely waded in the lake,

And I'm all wrapped up in flannel.

-Western Reserve Red Cat.

The thread of our life would be dark, Heaven knows! if it were not with friendship intertwined.—Thomas Moore.

Dost thou love life? Then do not squander time, for that is the stuff life is made of.—*Benj. Franklin*.

I am in love with this green earth.—Charles Lamb.

ADVICE TO THE LADIES 137 YEARS AGO

"To all the Ladies whom it may concern;

"That a good wife should be like three things; which three things she should not be like:

"First, she should be like a snail, always keep within her own house; but she should not be like a snail to carry all she has upon her back:

"Second, she should be like an echo, to speak when she is spoke to; but she should not be like an echo, always have the last word:

"Third, she should be like a town clock, always keep time and regularity; but she should not be like a town clock, to speak so loud, that all the town may hear her."

-Old Farmer's Almanac, 1796.

THE NEW FEDERAL TAXES Enacted on June 6, 1932

INCOME TAXES

Every single person (whether or not head of a family) and every married person not living with husband or wife, earning more than \$1,000 must file a return. Every married person, living with husband or wife, earning \$2,500 or more must file a return. Where the combined earnings of both are \$2,500 or more a return is required, or each may file a return, dividing the exemption in any manner they may agree upon.

If the gross income is \$5,000 or more, a return is required even if the net income is less than the personal exemption. Gross income is defined as gains, profits and income derived from salaries, wages, compensation for personal services, profits from professions, trades, business, commerce, or sales, dealings in property, rent, interest, dividends, securities, or gains or profits derived from any source whatever. In a trading concern gross income means gross sales less the cost of goods sold, such cost, however, not to include overhead which is chargeable to selling or office costs.

INCOME TAX TABLE FOR 1932 INCOME RETURNED IN 1933

Explanation

The Table following is for a married person or the head of a family, with a personal exemption of \$2,500, having no dependents and receiving no dividends or partially exempt interest.

	Income	Tax Table	
Net Income	Total Tax	Net Income	Total Tax
\$1,000	. 0	\$ 26,000	\$ 2,700.00
2,000	. 0	28,000	3,080.00
3,000	. \$20.00	30,000	
4,000	. 60.00	35,000	
5,000	. 100.00	40,000	5,800.00
6,000	. 140.00	45,000	7,140.00
7,000	. 210.00	50,000	8,600.00
8,000	. 300.00	60,000	11,900.00
9,000	. 390.00	70,000	
10,000	. 480.00	80,000	20,000,00
12,000	. 680.00	90,000	
14,000	. 900.00	100,000	
16,000	.1,140.00	150,000	
18,000	.1,400.00	200,000	
20,000	.1,680.00	300,000	
22,000	.2,000.00	500,000	
24,000	.2,340.00	1,000,000	
	_		

To determine the tax of a single person (without dependents, dividends, or partially exempt interest), the total tax as shown in the above table should be increased by \$120 where the net income exceeds \$6,500. On smaller amounts the tax of such a person is as follows:

Net Income	Tax
\$1,000	None
2,000	\$ 40
3,000	80
4,000	120
5,000	160
6.000	940

TAX RATE COMPARISON TABLE

IndividualsNormal Incom-	в Тах
	28 Act 1932 Act
Single	.500 \$1,000
Family head or married	,500 2,500
	Cent Per Cent
First \$4,000 1	1/2 4
\$4,000 to \$8,000	8
Over \$8,000 5	8

Individuals—Surtaxes

First \$6,000 . None \$6,000 to \$10,000 to \$10,000 to \$10,000 . None \$10,000 to \$10,000 . None \$1.2000 to \$14,000 . \$1.2000 . \$1.2000 . \$1.2000 . \$1.2000 . \$1.2000 . \$1.2000 . \$1.2000 . \$1.2000 to \$10,000 . \$1.2000 . \$1.2000 to \$20,000 . \$1.2000 . \$1.2000 to \$20,000 . \$1.2000 .		8 Act Cent	1932 Act Per Cent
Stock Without par value Stock Par \$100 Stopers \$100 Stopers \$100 Stopers \$200 Stock Par \$200	First \$6,000	one	
40,000 to 42,000	\$6,000 to \$10,000 No	one	4
40,000 to 42,000	12,000 to 14,000	1	3
40,000 to 42,000	14,000 to 16,000	2	4
40,000 to 42,000	18,000 to 20,000	\$ 4	6
40,000 to 42,000	20,000 to 22,000	5	8
40,000 to 42,000	24,000 to 26,000	7	10
40,000 to 42,000	26,000 to 28,000	7	11
40,000 to 42,000	30,000 to 32,000	3	13
40,000 to 42,000	32,000 to 36,000	9	15
40,000 to 42,000	38,000 to 40,000)	17
44,000 to 46,000	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1	18
48,000 to 50,000	1 44 000 to 46 000	2	20 1
50,000 to 52,000	46,000 to 48,000	2	$\frac{21}{22}$
62,000 to 64,000	50,000 to 52,000	<u> </u>	23
62,000 to 64,000	52,000 to 54,000		$\frac{24}{25}$
62,000 to 64,000	56,000 to 58,000	5	26
62,000 to 64,000	58,000 to 60,000		$\frac{27}{28}$
12,000 to 74,000	62,000 to 64,000	3	99 1
12,000 to 74,000	64,000 to 66,000	7	30 31
12,000 to 74,000	68,000 to 70,000	7	32
74,000 to 75,000	70,000 to 72,000	<u> </u>	33 34
90,000 to 92,000	74,000 to 76,000	8	35
90,000 to 92,000	76,000 to 78,000	8	36
90,000 to 92,000	80,000 to 82,000 1	9	38
90,000 to 92,000	82,000 to 84,000		39 40
90,000 to 92,000	86,000 to 88,000	9	41
94,000 to 96,000 19 45 96,000 to 98,000 19 46 98,000 to 100,000 19 47 100,000 to 150,000 20 48 150,000 to 200,000 20 49 200,000 to 300,000 20 50 400,000 to 400,000 20 51 400,000 to 500,000 20 52 500,000 to 750,000 20 53 750,000 to 1,000,000 20 55 Corporation—income Tax 1928 Act 1932 Act, Tax rate, per cent 12 13 34 Exemption \$3,000 None Extra tax on consolidated returns None 34 % Stamp Taxes 1928 Act 1932 Act Stock Transfers: Stock with par value 2c per \$100 or fraction thereof Stock without par value 2c per share 4c per share (If selling price is \$20 or more the rates under Act of 1932 are 5c instead of 4c.) Bond transfers 1c no each 2c per \$100 Stock without par value 5c per \$100 or fraction thereof	90.000 to 92.000		42
96,000 to 100,000	92,000 to 94,000	9	44
200,000 to 300,000 20	96,000 to 98,000	9	
200,000 to 300,000 20	98,000 to 100,000	9	47
\$\frac{400,000 to 500,000}{500,000} \ 20 \ 53 \ 750,000 to 1,000,000 \ 20 \ 55 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	150,000 to 130,000	0	49
\$\frac{400,000 to 500,000}{500,000} \ 20 \ 53 \ 750,000 to 1,000,000 \ 20 \ 55 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	200,000 to 300,000)	50
Corporation—Income Tax 1928 Act 1932 Act Tax rate, per cent 12 13 ¾ Exemption \$3,000 None Extra tax on consolidated returns None ¾ % Stamp Taxes 1928 Act 1932 Act Stock Transfers: 2c per \$100 4o per \$100 or fraction thereof thereof Stock with par value 2c per share 4c per share (If selling price is \$20 or more the rates under Act of 1932 are 5c instead of 4c.) Bond transfers None 4c per \$100 Stock Issue Stock with par value 5c per \$100 or fraction thereof thereof Stock with par value 5c per \$100 or fraction thereof thereof Stock without par value 5c per \$100 or fraction thereof thereof Stock without par value 5c per \$100 or fraction thereof thereof Stock without par value 5c per \$100 or fraction thereof thereof Stock without par value 5c per \$100 10c per \$100 Conveyances 5c per \$100 10c per \$100 To per \$100 10c per \$100 Conveyances 5c per \$100 10c per \$100 Stock per \$	400,000 to 500,000)	52
Corporation—Income Tax 1928 Act 1932 Act Tax rate, per cent 12 13 ¾ Exemption \$3,000 None Extra tax on consolidated returns None ¾ % Stamp Taxes 1928 Act 1932 Act Stock Transfers: 2c per \$100 4o per \$100 or fraction thereof thereof Stock with par value 2c per share 4c per share (If selling price is \$20 or more the rates under Act of 1932 are 5c instead of 4c.) Bond transfers None 4c per \$100 Stock Issue Stock with par value 5c per \$100 or fraction thereof thereof Stock with par value 5c per \$100 or fraction thereof thereof Stock without par value 5c per \$100 or fraction thereof thereof Stock without par value 5c per \$100 or fraction thereof thereof Stock without par value 5c per \$100 or fraction thereof thereof Stock without par value 5c per \$100 10c per \$100 Conveyances 5c per \$100 10c per \$100 To per \$100 10c per \$100 Conveyances 5c per \$100 10c per \$100 Stock per \$	500,000 to 750,000)	53 54
Corporation-Income Tax	Over \$1,000,000	ó	55
Tax rate, per cent	Corporation—Income Tax	1928 Act	1932 Act.
Exemption			
Stamp Taxes 1928 Act 1932 Act	Exemption	\$3,000	None
Stock Transfers: Stock with pai value	Extra tax on consolidated returns	None	3/4 %
Stock Transfers: Stock with pai value	Stamn Taxes	1928 Act	1932 Act
Stock with par value		1020 200	1002 Act
or fraction thereof Stock without par value. Stock without par value. Stock without par value. Stock without par value. Stock with par value. Stock with par value. Stock with par value. Stock with par value. Stock without par value. Stock with		2c per \$100	40 per \$100
Stock without par value 2c per share 4c per share (If selling price is \$20 or more the rates under Act of 1932 are 5c instead of 4c.) Bond transfers None 4c per \$100 Stock Issue 5c per \$100 10c per \$100 Stock with par value 5c per \$100 or fraction thereof Stock without par value 1c on each 2c on each \$20 or fraction thereof \$20 or fraction thereof tion thereof tion thereof Bond issues 5c per \$100 10c per \$100 Conveyances None 50c per \$500		or fraction	or fraction
(If selling price is \$20 or more the rates under Act of 1932 are 5c instead of 4c.) Bond transfers None 4c per \$100 Stock Issue 5c per \$100 10c per \$100 Stock with par value 5c per \$100 or fraction Stock without par value 1c on each 2c on each \$20 or fraction thereof \$20 or fraction thereof \$20 or fraction Conveyances 5c per \$100 10c per \$100 None 50c per \$500	Stock without non volus		
Bond transfers None 4c per \$100 Stock Issue 5c per \$100 10c per \$100 Stock with par value 5c per \$100 or fraction or fraction thereof Stock without par value 1c on each \$20 or fraction thereof 2c on each \$20 or fraction thereof Bond issues 5c per \$100 10c per \$100 Conveyances None 50c per \$500			
Stock Issue Stock with par value 5c per \$100 10c per \$100 or fraction thereof or fraction thereof thereof Stock without par value 1c on each \$20 or fraction thereof \$20 or fraction thereof Bond issues 5c per \$100 10c per \$100 Conveyances None 50c per \$500			
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Stock Issue	- 0100	10 0105
thereof thereof thereof thereof 2c on each 2c on each \$20 or fraction thereof \$20 or fraction thereof \$20 or fraction thereof \$10 or fraction thereof \$20 or fra	Stock with par value		
Stock without par value			
820 or fraction thereof \$20 or fraction thereof bond issues 5c per \$100 Conveyances None 50c per \$500	Stock without par value		
Bond issues 5c per \$100 10c per \$100 Conveyances None 50c per \$500			
Conveyances None 50c per \$500	Bond issues		

TAX RATE COMPARISON TABLE—Continued				
Excise Taxes				
	1928 Act	1932 Act		
Lubricating oils	None	4c a gal.		
Automobiles—passenger	None	3%		
Automobiles—trucks	None	2%		
Automobile accessories ¹	None	2%		
Grape concentrates	None	20c a gal.		
If containing more than 35% of sugar by weight. Brewers Wort		15c a gallon		
Liquid malt; malt syrup		3c per lb.		
Note: Liquid malt containing less than 15 per cent be taxable as brewers wort.	cum of solid			
Malt syrups, liquid and extract	None	3c a lb.		
Chewing gum	None	2%		
Radios and phonograph records	None	5%		
Toilet preparations ²	None	10%		
Jewelry ³	None None	10%		
Sporting goods	None None	10%		
Cameras ⁴ Firearms, shells and cartridges	None	10%		
Mechanical refrigerators	None	5%		
Furs	None	10%		
Gasoline	None	1c a gal.		
Rubber tires	None	2 1/4 c a lb.		
Inner tubes	None	4c a lb.		
Wooden matches	None	2c per M.		
Paper matches in books	None	½ of 1% per M.		
Candy	None	2%		
Cereal beverages	None	1 ¼ c a gal.		
Unfermented grape juice	None	5c a gal.		
Fountain syrups	None	6c a gal.		
Natural or artificial mineral waters or table waters	None	5c a gal.		
@ over 12 ½ c per gal		2c per gallon		
All still drinks 5		2c per gallon		
Carbonic acid gas	None	4c a lb.		
Not including tires and tubes.				
² Excluding soap, dentifrices and moutb washes, on ³ Articles sold for \$3.00 or more; Watches, clocks, sold for more than 9c each. ⁴ Weighing not more than 100 lbs. ⁵ Excluding cider.				
Import Taxes				
	1928 Act	1932 Act		
Lubricating oils ⁶	None	4c a gal.6		
Crude petroleum and fuel oil	None	½ c a gal.		
Gasoline	None	2 ½ c a gal.		
Paraffin and other petroleum wax products	None	1c a lb.		
Lumber	None None	\$3 per M ft.		
Copper	None	10c per cwt.		
	None	4c a lb.		
Other Taxes	1000 4 -4	4000		
Telegraph messages	1928 Act None	1932 Act		
Telephone conversations, when charge is 50c or more	None	5%		
Leased wire	None	10 to 20c		
Radio and cable messages	None	5%		
Postal rates (first class)		10c flat		
Postal rates		1c addtl.		
(second class)				

increased

license fee based on size

10%

3%

None

None

None

None

Electricity sales None 6 Imported lubricating oils are exempt from import tax.

(second class)

7 40c exemption.

Oil Pipe lines—transportation

Bank checks

Safe deposit boxes

Boats

GAME AND FISH LAWS

OPEN SEASON 1932-1933

FIRST AND LAST DAYS INCLUSIVE (See exceptions)

	ME.	N. H.	VT.	Mass.	R. I.	Conn.
Deer	See Note	See Note	See Note Nov. 21 to Nov. 30	See Note Dec. 5 to Dec. 10	See Note No Open Season	See Note No Open Season
Moose and Caribou	No Open Season	No Open Season	No Open Season	No Open Season		
Gray Squirrel	Oct. 1 to Oct. 31	No Open Season	Oct. 1 to Oct. 31	Oct. 20 to Nov. 20	Nov. 1 to Dec. 31	Oct. 20 to Nov. 23
Hare and Rabbit	See Note Oct. 1 to Mar. 31	Oct. 1 to Feb. 28	Oct. 1 to Feb. 28	See Note Oct. 20 to Feb. 15	Nov. 1 to Dec. 31	See Note Nov. 1 to Dec. 15
Partridge	Oct. 1 to Nov. 9	See Note Oct. 1 to Nov. 30	Oct. 1 to Oct. 31	See Note Oct. 20 to Nov. 20	See Note Nov. 1 to Dec. 31	See Note Oct. 20 to Nov. 23
Quail	No Open Season	Oct. 15 to Nov. 15	Sept. 15 to Nov. 30	See Note Oct. 20 to Nov. 20	Nov. 1 to Dec. 31	Close Season
Woodcock	Oct. 1 to Oct. 31	Oct. 1 to Oct. 31	Oct. 1 to Oct. 31	Oct. 20 to Nov. 19	Nov. 1 to Nov. 19	Oct. 20 to Nov. 19
Duck	Oct. 16 to Dec. 15	Oct. 16 to Dec. 15	Oct. 16 to Dec. 15	Oct. 16 to Dec. 15	Oct. 16 to Dec. 15	Oct. 16 to Dec. 15
Goose	Oct. 16 to Dec. 15	Oct. 16 to Dec. 15	Oct. 16 to Dec. 15	Oct. 16 to Dec. 15	Oct. 16 to Dec. 15	Oct. 16 to Dec. 15
Ruffed Grouse	Oct. 1 to Nov. 9	See Note Oct. 1 to Nov. 30	Oct. 1 to Oct. 31	See Note Oct. 20 to Nov. 20	Nov. 1 to Dec. 31	See Note Oct. 20 to Nov. 23
Brant	Oct. 16 to Dec. 15	Oct. 16 to Dec. 15	Oct. 16 to Dec. 15	Oct. 16 to Dec. 15	Oct. 16 to Dec. 15	Oct. 16 to Dec. 15
Wilson Snipe	Oct. 1 to Dec. 31	Oct. 1 to Dec. 31	Oct. 1 to Dec. 31	Oct. 1 to Dec. 31	Oct. 1 to Dec. 31	Oct. 1 to Dec. 31
Coot	Oct. 16 to Dec. 15	Oct. 16 to Dec. 15	Oct. 16 to Dec. 15	Oct. 16 to Dec. 15	Oct. 16 to Dec. 15	Oct. 16 to Dec. 15
Rail	Sept. 1 to Nov. 30	Sept. 1 to Nov. 30	Sept. 1 to Nov. 30	Oct. 1 to Dec. 15	Sept. 1 to Nov. 30	Sept. 1 to Nov. 30
Gallinule	Sept. 1 to Nov. 30	Sept. 16 to Dec. 31	Sept. 1 to Nov. 30	Oct. 1 to Dec. 15	Oct. 16 to Dec. 15	Sept. 1 to Nov. 30

The several States have authority to curtail the seasons and bag limits fixed by Federal regulations, but the Federal restrictions may not be exceeded. The Federal regulations are amended from time to time to meet changing conditions, and persons intending to hunt migratory game birds should therefore procure from the Biological Survey of the Department of Agriculture at Washington, copies of the latest regulations.

NOTES, EXCEPTIONS AND LICENSES

GAME LAWS

For other information, consult the Fish and Game Commissioner of each state. All dates inclusive.

These laws are in force when this Almanac goes to print, November, 1932, and have been substantiated by the Fish and Game Commissioner in each New England State.

MAINE

Caribou and Moose, closed season.

DEER may be hunted in the northern county of Aroostook from Oct. 16 to Nov. 30, inclusive.

Deer may be hunted in the southern counties of Androscoggin, Cumberland, Kennebec, Knox, Lincoln, Sagadahoc, Waldo and York Counties from Nov. 1 to Nov. 30, inclusive.

Deer may be hunted in Hancock, Washington, Penobscot, Somerset, Piscataquis, Franklin and Oxford Counties from Nov. 1 to Dec. 15 inclusive.

Hunting of wild animals is prohibited from an hour after sunset to an hour before sunrise, with the exception of skunks and raccoons.

Hunting of wild birds is prohibited from sunset to half an hour before sunrise.

WILD HARES OR RABBITS, open season in the counties of Androscoggin, Sagadahoc, Cumberland and York from Oct. 1-Feb. 28.

HUNTING AND FISHING LICENSES: FEES. (1929, c. 331, sec. 16.)

Any resident and his immediate family may without license hunt on land owned by him, or leased by him and on which he is actually domiciled and which is used exclusively for agricultural purposes.

Resident hunting license costs sixty-five cents annually. Combination hunting and fishing license, for residents, costs one dollar and fifteen cents annually. Fishing license for residents 65c annually.

Non-resident hunting license, for wild birds, rabbits, raccoons, foxes and unprotected wild birds or wild animals only, costs five dollars and fifteen cents annually; for both wild birds and wild animals, fifteen dollars and fifteen cents annually. Non-resident fishing license \$5.15 for one year, \$3.15 for 30 days.

Failure to produce such license within a reasonable time when requested by any authorized person shall be prima facie evidence of the violation of law.

Hunting licenses shall not be issued to any non-resident under eighteen years of age unless the written consent of the parent or guardian is attached to the application, but any resident under sixteen years of age may hunt without a license, if accompanied at all times by parent or guardian.

NEW HAMPSHIRE

Governor and council may suspend open season in time of excessive drought or emergency.

DEER: Open season. Wild deer may be captured or taken after 5:00 a. m. and before 6:00 p.m. as follows: in the County of Coos, except in the towns of Dalton, Whitefield and Carroll from Oct. 15-Dec. 1; in the County of Grafton, and the towns of Dalton, Whitefield and Carroll, in the County of Coos from Nov. 1-Dec. 16; in the County of Carroll from Nov. 15-Dec. 16; in the County of Cheshire from Dec. 1-Dec. 16; in the County of Rockingham from Dec. 15-Jan. 1 and from all the other Counties in the State from Dec. 1-Jan. 1.

No person shall take more than one deer in one season. These provisions shall not apply to deer in private game reserves.

HUNTING AND FISHING LICENSES: Non-resident: Game and fish, \$15.15; fish, \$3.15. Resident: Game and fish, \$2.00. Resident soldiers and

sailors more than 70 years of age may obtain license free on application to fish and game commissioner. Fishing licenses not required of children under 16 or of blind persons. Issued by commissioner or his agent in each town, who, with few exceptions is the town clerk. Children under 16 may hunt without license when accompanied by licensed parent or guardian. Resident owner of farm lands and his minor children may hunt during open season on own land without license. Guide: Non-resident, \$20; resident, \$1. Issued by commissioner.

VERMONT

Landowner, member of his family, or authorized employee may kill deer doing damage to his fruit trees or crops; but person under whose direction a deer is so killed must, within 12 hours, report the matter in a signed statement to nearest fish and game warden. Deer may also be killed at any time in orchard zones established by commissioner, but such killing must forthwith be reported to owner of orchard and county warden.

Deer, one deer with horns not less than 3 inches long, Nov. 21-Nov. 30, open season., both dates inclusive excepting Sundays.

A person shall not take a wild deer in Franklin Co. at any time. Closed season on moose, elk, and caribou.

ENGLISH SNIPE, PLOVER (other than UPLAND PLOVER) and shore birds, Oct. 1 - Dec. 1, open season.

PHEASANTS, OF EUROPEAN PARTRIDGE, UPLAND PLOVER and WOOD Duck, no open season.

Hunting and Fishing Licenses: Non-resident: Game and fish, \$10.50; fish, \$3.15. (Reciprocal.) Resident: Game and fish, \$1.50; game, \$1; fish, \$1. Issued by town clerks. Citizens of United States who own \$1,000 taxable property in Vermont pay same fees as resident. Alien resident who has not declared his intention, pays same fees as non-resident; declarant resident for six months in State pays same fees as resident.

Hunting licenses not issued to persons under 16 without written consent of parent or guardian. Owners of farm lands and their resident minor children or tenants may hunt without a license on own lands during open season. Fishing license not required of persons under 15.

MASSACHUSETTS

DEER: Open season Dec. 5-Dec. 10. No open season in Nantucket County. Daily closed season one-half hour after sunset to one-half hour before sunrise. No hunting dogs to be at large during open season on deer.

Ruffed Grouse, open season Oct. 20-Nov. 20 inclusive.

Quail, Closed season in Essex, Hampden, Hampshire, Berkshire, Franklin, Middlesex, Nantucket and Worcester Counties. On Ruffed Grouse and Quail, director may reduce bag limit; suspend or modify season.

Pheasants, open season, Oct. 20-Nov. 20. (Closed in Dukes County.) Cocks only in Nantucket, Berkshire, Franklin and Hampshire.

HARES and RABBITS, open season: in Nantucket County Oct. 20 to last day of February.

EUROPEAN HARES may be killed in Berkshire County at any time.

LICENSES: Sporting license required for hunting and fishing in inland waters.

Citizen (resident for six months), sporting license \$2.75, trapping \$5.25. Non-residents, sporting \$10.25, trapping \$10.25. Alien, sporting \$15.25, trapping \$15.25. Trapping and fishing license to minors between 15–18 yrs. of age \$1.25 and written consent of parents.

Fees after January 1, 1933: Citizens, sporting, \$3.25; hunting, \$2.00; fishing, \$2.00. Minors and women, fishing, \$1.25; trapping, \$5.25. Minors, trapping, \$2.25. Non-resident Citizens, sporting, \$15.25; hunting, \$10.25; fishing, \$5.25: trapping, \$15.25.

RHODE ISLAND

No Open Season on Hungarian partridges. Swans, wood duck, curlew, willet, godwits, black breasted and golden plover, greater and lesser yellowlegs, and all the smaller shore birds except those for which open seasons are provided as above stated, are protected at all times under the Federal regulations.

New Shoreham Pheasants protected except first and third Wednesdays in November and first Wednesday in December. Limit two per day. Jamestown Pheasants protected except first and second Mondays in November. Limit two per day.

Note. It is a state offense to import live game birds or animals without first obtaining a permit from the Game Commissioner, or to send or carry out of the state partridge, quail, woodcock, wild ducks', wild swans, wild geese, rails, shore, marsh or beach birds.

Hunting and Fishing Licenses: Nonresident: Game, \$10.00; fish, \$2.50 Alien: Game, \$15.00; fish, \$2.50, alien resident for 1 year; \$5, alien not resident for 1 year. Resident: Game, \$2.00; fish, \$1.25. Issued by city and town clerks. Fishing license not required of women. nor of males under 18. License not required of resident or his immediate family to hunt on own or leased agricultural lands on which actually domiciled; non-resident owning real estate valued at not less than \$500, and non-resident member or guest of club incorporated for hunting or fishing purposes prior to Jan. 1, 1909, which owns real estate assessed for taxation at value of not less than \$1,000, may procure license at a fee of \$2.25; licenses not issued to minors under 15. Consent of owner required for hunting upland game birds on land of another from January 1 to October 31. Migratory game birds may be taken only from one-half hour before sunrise to sunset.

CONNECTICUT

Governor may suspend open seasons during time of drought.

Deer: Owners of agricultural lands, member of family, or employee may kill deer with a shotgun or, under permit, with a rifle, at any time on such lands when deer are damaging fruit trees or growing crops, but such killing or wounding must be reported to the commissioners within 12 hours.

HARE, RABBIT (except European, Belgian, or German hare and jack rabbit, no closed season): Nov. 1-Dec. 15, open season.

Pheasant (male only): Oct. 20-Nov. 23, open season.

No person shall kill any Hungarian Partridge prior to Oct. 20, 1933.

Quail—Closed season, 1932.

HUNTING AND FISHING LICENSES: Non-resident: Game, \$10.35; Game and fish, \$14.35; fish, \$5.35. Resident citizen: Game, \$3.35; game and fish, \$5.35; fish, \$3.35.

Hunting license not issued to persons under 16, and fishing license not required of such persons. Resident and his children may hunt or fish during open season without license on land on which he is actually domiciled, if such land is not used for club, shooting, or fishing purposes. Licensee must report amount of game killed, and must wear license button on outer garment. Alien: Not permitted to hunt. Taxidermist, \$5.

Hunting license exceptions: Non-resident citizen owning improved real estate in Connecticut to the value of \$1,000 or more or any lineal descendant of such non-resident may procure a license for the same fee as a resident.

Fishing license—Non-residents residing in a state the non-resident fee of which is in excess of \$5.35, shall be charged the same fee in this state. Aliens or their lineal descendants owning real estate situated in the state assessed for the purpose of taxation in the amount of \$500 or more and non-residents or lineal descendants of same own-

ing improved real estate situated in the state assessed for the purpose of taxation in the amount of \$1,000 or more may procure a license for the same fee as a resident.

FISH LAWS.

MAINE

Open Season:

Lakes and Ponds

Salmon, Landlocked Salmon, Trout, and Togue, from the time the ice is out of the lakes and ponds to Sept. 30. White Perch from June 21 to Sept. 29. Black Bass from June 21 to Sept. 30, except that not more than three black bass in one day may be caught by fly fishing from June 1 to June 20, inclusive.

Rivers Above Tide Waters

SALMON, LANDLOCKED SALMON, TROUT, AND TOGUE, from the time the ice is out of the river to Sept. 14. Black Bass from June 21 to Sept. 30, except that not more than 3 Black Bass in any one day may be caught by fly fishing from June 1 to June 20 inclusive. White Perch from June 21 to Sept. 14.

Brooks and Streams Above Tide Waters

SEA SALMON, from the time ice is out of brooks and streams to Sept. 14. LANDLOCKED SALMON from the time the ice is out of the brooks and

streams to August 15.

WHITE PERCH, from June 21 to Sept. 14. TOGUE, from the time the ice is out of the brooks and streams to Sept. 30. Black Bass, from June 21 to Sept. 30, except that not more than three black bass in any one day may be caught by fly fishing from June 1 to June 20 inclusive. Minimum length of Landlocked Salmon 12 in., Trout or White Perch 6 in., Black Bass 10 in. Trout, ice out to August 15.

NEW HAMPSHIRE

Open Season:

Brook, Rainbow, Brown Trout, Coos, Carroll, and Grafton Counties, May 1 to Sept. 1. All other counties, Apr. 15 to Aug. 1. Limit—5 lbs. per day. Minimum length: ponds, 7 in., streams, 6 in. Lake Trout, Jan. 1 to Sept. 1. Limit—4 per day, minimum length 15 in. Salmon, Apr. 1 to Sept. 1. Limit—4 per day, minimum length 15 in. Aureolus Trout, Apr. 15 to Sept. 1. Limit—4 per day, minimum length 12 in. Black Bass, July 1 to Jan. 1. Limit—10 lbs. per day, minimum length 9 in. With fly only from June 15 in Winnepesaukee, Sunapee, Asquam and Wentworth Lakes. Pike Perch, June 1 to March 1. Limit—none, minimum length 10 in. White Perch, June 1 to Nov. 1. Limit—10 lbs., minimum length 7 in. Pickerel, June 1 to Jan. 16. Limit—10 lbs. per day, minimum length 12 in. Shad, Winnepesaukee, Jan. 1 to June 15. Limit—12 per day. Winnepesaukee, Paugus Lake, June 15 to Oct. 1. 6 per day. Horned Pout, June 15 to Nov. 1. Limit—40 per day. Can be taken anytime in waters in Coos County and Connecticut River. Smelt. Limit—10 lbs. per day. With a dipnet not over 48 in. in diameter.

VERMONT

Open Season: General Rule. Consult Fish Commissioner of State for

exceptions.

Brook Trout, Brown Trout, Lock Leven, Steelhead and Rainbow Trout, Greyling or Black Spotted Trout, May 1 to Aug. 15, not less than 6 in. long, not more than 25 fish or 5 lbs. Golden Trout, Lake Trout and Land-locked Salmon, May 1 to Sept. 1, not less than 15 in. long, not more than 10 lbs.

NOTE.—See General Laws for exceptions to above applying to Forest Lake,
Big Averill Lake, Little Averill Lake, in Essex County; Willoughby Lake, Orleans County and Lake Mitchell, Windsor County.

(It is illegal to take any of the fish enumerated above two hours

after sunset and one hour before sunrise.)

BLACK BASS, not less than 10 in. long, not more than 10 fish, July 1 to Jan. 1. (Cannot be sold) Muskallonge (except Lake Champlain), June 15 to Apr. 15. Pike Perch (Wall-Eyed Pike), not less than 10 in. long, not more than 25 lbs., May 1 to Mar. 1. Pickerel, not less than 12 in. long, May 1 to Mar. 15.

Shooting and Spearing in certain waters March 15 to May 15. (Consult Fish Com.)

MASSACHUSETTS

General Rules, all dates inclusive. Open Season.

TROUT, Apr. 15 to July 31, 6 inches or more long, daily limit 15. Fishing prohibited 2 hours after sunset to 1 hour before sunrise. Deerfield River May 30 to Aug. 31, 12 inches or more in length, 5 Trout per person per day. Fish may be taken only with a single rod and line attached to be held in the hand.

Salmon, Apr. 15 to Nov. 30, 12 inches or more in length, 5 in a day.

Pickerel, May 1 to Feb. 28, 12 inches or more long, 10 in a day. Pike Perch, May 1 to Feb. 28, 12 inches or more, 5 in a day. Muscallonge, May 1 to Jan. 31, 20 inches or more long.

White Perch, June 1 to Feb. 28, 7 inches, except in Dukes and Nantucket Counties. Horned Pout, June 15 to Feb. 28, 30 fish in 24 hours.

Black Bass, July 1 to Jan. 31, 10 inches or more long, 6 in a day.

Fish frequenting fresh water may be taken only by single hook attached to each line, except 3 flies may be used on each line. Limit 10 hooks.

RHODE ISLAND

Open Season: Dates inclusive. Consult Fish Commissioner of State for exceptions.

Consult Fish Commissioner of State concerning restrictions regarding seining.

BLACK Bass, June 20 to Feb. 20, 10 inches or more long, 8 in a day. White Perch not less than 6 inches, daily limit 20. Yellow or Striped Perch, 6 inches or more long, daily limit 30. Pickerel. June 20 to Feb. 20, 10 inches or more long, daily limit 18. Trout, Apr. 1 to July 15, 7 inches or more long, daily limit 20.

Fishing in fresh water restricted to lines operated by hand with not over 2 hooks upon each. Through the ice, 10 lines with a single hook upon each. Restricted to daylight hours and lines must be personally attended.

CONNECTICUT

Open Season: Dates inclusive. Consult Fish Commissioner of State for exceptions.

TROUT, other than lake trout, April 15th to June 30th, legal length 6 inches, limit 10 pounds in any one day or not more than 20 trout. Sale of trout prohibited.

LAKE TROUT from April 15 to August 31, legal length 10 inches. PICKEREL from April 15 to Jan. 31, legal length 12 inches, bag limit 10. Alewives from Mar. 1 to May 31. Black Bass from July 1 to Oct. 31, legal length 10 inches, bag limit 10. Lamprey Eels, Mar. 1 to May 15. Striped Bass shall not be taken in the inland waters except by angling, legal length 12 in. Perch, Yellow and White, legal length 7 in. Limit, a total of 30 of both kinds, except for ice fishing.

NOTE.—The above is not a complete transcript of the Fish and Game Laws.

It is intended merely as a concise statement of the provisions most likely to be of general interest.

Consult Fish Warden of each county for exceptions.

	POSTAL RATES.—DOMESTIC. First Class Matter may be forwarded from one Post Office to another witbout additional postage, but other matter must bave new postage.									
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١,	8 9 10	$.11 \\ .11 \\ .12$	$.16 \\ .17 \\ .18$	$^{.16}_{.17}$	$\begin{array}{c} .23 \\ .25 \\ .27 \end{array}$	$.35 \\ .38$	$.49 \\ .54 \\ .59$	$\frac{.61}{.68}$	$\begin{array}{c} .77 \\ .86 \\ .95 \end{array}$	$\begin{array}{c c} .92 \\ 1.03 \\ 1.14 \end{array}$
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53	.33	.66	.66	1.13 1.15 1.17	1.92	2.87	3.76	$\frac{4.82}{4.91}$	5.87
54 55	.34	.67	.67	1.19	$\begin{array}{c} 1.96 \\ 1.99 \end{array}$	2.92	$\frac{3.83}{3.90}$	$\begin{array}{c} 4.91 \\ 5.00 \end{array}$	$\begin{array}{c} 5.98 \\ 6.09 \end{array}$
56	35	69	69	1.14	2.03	3.03	$\frac{3.90}{3.97}$	5.00	6.20
57	.35	.70	.70	1.21	$\begin{array}{c} 2.06 \\ 2.10 \\ 2.13 \end{array}$	3.08	4.04	$\frac{5.09}{5.18}$	6.20 6.31 6.42 6.53
58	.36	.71	.71	1.23	2.10	$\frac{3.14}{3.19}$	4.11	5.27	6.42
59	.36 .36 .37	.72	.72	1.19 1.21 1.23 1.25 1.27 1.29 1.31	2.13	3.19	4.18	5.36	6.53
$\begin{array}{c} 60 \\ 61 \end{array}$.37	73	.73	1.27	2.17	$\frac{3.24}{3.29}$	$\frac{4.25}{4.32}$	$\begin{array}{c} 5.45 \\ 5.54 \end{array}$	6.64
62	.37 .38 .38	.73 .74 .76 .77	76.	1.23	2.24	$\frac{3.29}{3.35}$	$\frac{4.32}{4.39}$	5.63	$6.75 \\ 6.86 \\ 6.97$
63	.38	.77	.77	1.33	$\overline{2}.\overline{2}.\overline{7}$	3.40	4.46	$\frac{5.63}{5.72}$	6.97
64	.39	7 8	.78	$\frac{1.33}{1.35}$	2.31	3.45	4.53	5.81	7.08
65	.39	.79	.79	1.37	2.34	3.51	4.60	5.90	7.19
66	$\begin{array}{c} .40 \\ .40 \end{array}$.79 $.80$ $.81$ $.82$ $.83$	$.80 \\ .81 \\ .82 \\ .83$	1.39 1.41 1.43	2.17 2.20 2.24 2.27 2.31 2.34 2.38 2.41 2.45	$\frac{3.56}{3.61}$	$\frac{4.67}{4.74}$	5.99	7.30 7.41 7.52
68	.41	.82	.82	1.43	2.45	$\frac{3.61}{3.67}$	4.81	$\frac{6.08}{6.17}$	7.52
1 69	.41	$.8\overline{3}$.83	1.45	2.48	3.72	4.88	6.26	7.63
70	.42	.84	.84	1.47	2.52	3.77	4.95	6.35	7.74

EXCEPTIONS

(a) In the first or second zone, where the distance by the shortest regular practicable mail route is 300 miles or more, the rate is 9 cents for the first pound and 2 cents for each additional pound.

(b) On parcels collected on rural routes the postage is 2 cents less per parcel than shown in the foregoing table when for local delivery and 3 cents less per parcel when for other than local delivery.

(c) Parcels weighing less than 10 pounds measuring over 84 inches, hut not more than 100 inches in length and girth combined, are subject to a minimum charge equal to that for a 10-pound parcel for the zone to which addressed.

Limit of size for parcels is 100 inches in length and girth combined. weight is 70 pounds in all zones.

A special rate is allowed under certain conditions. Library Books. (Inquire at Post Office as to requirements.)

SPECIAL HANDLING.

Parcels will receive first-class handling if, in addition to regular postage, there	
is added—	
2 lbs. or less	.10
Over 2 lhs, and not more than 10 lbs.	.15
Over 10 lbs	20

SPECIAL HANDLING WITH SPECIAL DELIVERY.

Parcels of fourth-class matter will be given the same expeditious handling and transportation as is accorded first-class matter, and also special delivery at the office of address, upon prepayment of the following charge in addition to the regular postage: Up to 2 pounds 15 cents; over 2 pounds up to 10 pounds 25 ceuts; over 10 pounds 35 cents.

REGISTERED MAIL.

Not to exceed \$5	\$0.15 Not to exceed \$500\$0.70	
Not to exceed 25	18 Not to exceed 600	7
Not to exceed 50	20 Not to exceed 700	
Not to exceed 75	25 Not to exceed 800	ì
Not to exceed 100	30 Not to exceed 900	
Not to exceed 200	40 Not to exceed 1000 1.00	
Not to exceed 300	50	- [
Not to exceed 400	60	- [

POSTAL MONEY ORDERS.

For C	Orders		For Orders	
	\$0.01 to	\$2.50 6 cents	From \$20.01 to	\$40.0015 cents
	\$2.51 to			\$60.0018 cents
From	\$5.01 to	\$10.0011 cents	From \$60.01 to	\$80.0020 cents
From	\$10.01 to	\$20.0013 cents		\$100.0022 cents

POSTAL RATES. - FOREIGN

- Letters.—For the places in the following list the postal rate is 3 cetts each ounce or fraction. For all other foreign destinations, 5 cet ts first ounce and 3 cents each additional ounce or fraction: Andorra (Republic), Argentina, Balcaric Islands, Bolivia, Brazil, Canada, Canary Islands, Chile, Colombia, Costa Rica, Cuba, Dominican Republic, Ecuador, Guatemala, Haiti, Honduras (Republic), Labrador, Mexico, Newfoundland, Nicaragua, Panana, Paragnay, Peru, Salvador, El; Spain, including Alhucemas Island, Ceuta, Chafarinas or Zafarani Islands, Melilla, Penon de Velez de la Gomera, and Tangier, Uruguay, Venezuela,
- **Post Cards.** Single post cards for places cnumerated above 2 cents; maximum size $6x4\frac{1}{4}$ inches, minimum size $4x2\frac{3}{4}$ inches. Single post cards for all other foreign destinations 3 cents.
- Printed Matter, $1\frac{1}{2}$ cents for each two ounces or fraction. Limit of weight 4 lbs., 6 oz., iu general.
- Samples of merchandise.—For all foreign destinations, 1½ cents each 2 ounces or fraction, with a minimum charge of 3 cents. Limit of weight: 18 ounces. Maximum dimensions: 18 inches in length, 8 inches in width, and 4 inches in thickness, except when in the form of a roll they are 18 by 6 inches.
- Commercial papers.—For all foreign destinations, $1\frac{1}{2}$ cents each 2 ounces or fraction, with a minimum charge of 5 cents. Limit of weight and maximum dimensions: Same as for printed matter.
- Merchandise. Packages of merchandise, to the countries enumerated above, weighing 8 ounces or less 2 cents for each 2 ounces or fraction thereof, except in the case of merchandise consisting of seeds, scions, plants, cuttings, bulbs and roots for which the charge is $1\frac{1}{2}$ cents each 2 ounces or fraction thereof. (This is not parcel post and must not have a customs declaration attached.)
- Registration fee.—For all foreign destinations, 15 cents in addition to postage. When a return receipt is requested at the time of mailing, there is an additional charge of 5 cents therefor, and a charge of 10 cents when requested after mailing.

INTERNATIONAL PARCEL POST.

- Countries.—Packages of mailable merchandise may be transmitted by parcel post to practically all countries.

 At the present time C.O.D. service is restricted to parcels exchanged with Mexico, Germany, Sweden and Finland.
- Allowable Dimensions (general).—Greatest length, 3½ feet; greatest length and girth combined, 6 feet, except to certain countries, information concerning which may be obtained from the Official Postal Guide.

Small Packets. (New class of mail) July 1, 1930.

Consult Post Office

POSTAL MONEY ORDERS.-INTERNATIONAL.

Limit of a Single Order, \$100. For Orders from— \$0.01 to \$10.....

I of Orders from		
\$0.01 to	\$10	10 cents
From \$10.01 to	\$20,	20 cents
	\$30	
From \$30.01 to	\$40	
From \$40.01 to	\$50	
	\$60	
	\$70	
From \$70.01 to	\$80	80 cents
From \$80.01 to	\$90	90 cents
From \$90.01 to \$	\$100	1 dollar

AIR MAIL SERVICE.

8 cents for first ounce, 13 cents second ounce and each succeeding ounce, to any part of the United States. This same rate applies to Canada, Cuba, Newfoundland, Mexico, and The Bahamas.

STATE AGRICULTURAL EXPERIMENT STATIONS AND COUNTY AGENTS.

MAINE

..... Orono Director of Station.....Dr. Fred Griffee Director of Extension Service Arthur L. Deering County Agents.....Leader, George Lord Androscoggin & Sagadahoc, L. Eastman -Auburn Aroostook, Verne C. Beverly. Richard C. Dolloff, Asst.—Presque Isle Cumberland, W. S. Rowe—Portland Franklin, Ralph Corbett-Farmington Hancock, Gardner Tibbetts-Ellsworth Kennebec, C. A. Day-Augusta Knox-Lincoln, R. C. Wentworth-Rockland Oxford, Donald H. Ridley-South Paris Penobscot, M. S. Smith-Bangor Piscataquis, Oscar Wyman-Dover-Foxcroft Somerset, G. C. Dunn-Skowhegan Waldo, N. S. Donahue-Belfast Washington, R. W. Hobson-Machias

NEW HAMPSHIRE

York, R. H. Lovejoy-Sanford

County Agents:

Belknap, Royal W. Smith—Laconia Carroll, Errol C. Perry—Conway Cheshire, W. Leon Funkhouser—Keene Coos, D. A. O'Brien—Lancaster Grafton, W. Ross Wilson—Woodsville Hillsboro, E. W. Pierce—Milford Merrimack, E. W. Holden—Concord Rockingham, J. A. Purington—Exeter Strafford, E. A. Adams—Rochester Sullivan, H. N. Wells—Claremont

VERMONT

Location Burlington Director of Station J. E. Carrigan, Acting Director Director of Extension Service J. E. Carrigan County Agents....Leader, H. W. Soule, Addison, R. O. Randall-Middlebury Bennington, J. A. McKee-Bennington Caledonia, W. A. Dodge—St. Johnsbury Chittenden, G. R. Ware-Burlington Franklin, Ralph Caldwell McWilliams. -St. Albans Grande Isle, S. C. Painter-North Hero Lamoille, F. D. Jones-Morrisville Orange, F. M. Small-Chelsea Orleans, J. L. MacDermid-Newport Rutland, T. D. Cook-Rutland Washington, Hjalmar Alfred Aronson,

-Montpeller

Windham, Edmund Morton Root—Brattleboro

Windsor, Clarence Rann Carlton—White River Junction

MASSACHUSETTS

Willard A. Munson

County Agents:

Barnstable, B. Tomlinson—Barnstable Berkshire, H. J. Talmage—Pittsfield Bristol, Warren L. Ide—Segreganset Dukes, E. E. Ekberg—Vineyard Haven Essex, Francis C. Smith—Hathorne Franklin, Joseph H. Putnam—Greenfield Hampden, Wilbur T. Locke.

—West Springfield Hampshire, A. S. Leland—Northampton Middlesex, A. F. MacDougall—Concord Norfolk, Earl M. Ricker—Walpole Plymouth, James W. Dayton, Brockton Worcester, G. F. E. Story—Worcester.

RHODE ISLAND

County Agents:

Eastern Rhode Island, S. D. Hollis— Newport

Northern Rhode Island, W. H. Wood— Providence

Southern Rhode Island, Ralph S. Shaw —East Greenwich

CONNECTICUT

LocationStorrs and New Haven
Director of Stations......W. L. Slate
Director of Extension Service
Benjamin W. Ellis

County Agents:

Fairfield, LeRoy M. Chapman—Danbury Hartford, Charles D. Lewis—Hartford Litchfield, Raymond P. Atherton—Litchfield

Middlesex, Philip F. Dean—Middletown New Haven, Raymond K. Clapp—New Haven.

New London, Walter T. Clark—Norwich Tolland, Ernest E. Tucker—Rockville Windham, Raymond E. Wing—Putnam

COLLEGES, PROFESSIONAL AND NORMAL SCHOOLS IN NEW ENGLAND.

MAINE Bates College-Lewiston Bowdoin College—Brunswick Colby College—Waterville University of Maine—Orono State Normal School—Castine State Normal School-Farmington State Normal School—Fort Kent State Normal School—Fort Kent
State Normal School—Machias
State Normal School—Presque Isle
Theological Seminary—Bangor

Junior Colleges
Nasson Institute—Springyale
Ricker Classical Institute and Junior College-Houlton Westbrook Seminary and Junior College-

NEW HAMPSHIRE

Dartmouth College-Hanover (Including Medical, Tuck School of Administration and Finance and Thayer School of Civil Engineering.) University of New Hampshire-Durham St. Anselm's College-Manchester State Normal Schools—Keene State Normal Schools—Plymouth

VERMONT

Bennington College—Bennington Middlebury College—Middlebury Norwich University-Northfield St. Michael's College—Winooski Park State Normal Schools—Castleton State Normal Schools-Johnson State Normal School-Lyndon Ctr. Trinity College, Inc.—Burlington University of Vermont and State Agricultural College-Burlington Vermont State School of Agriculture-Randolph Center

MASSACHUSETTS American International College-Springfield Amherst College—Amherst Andover Theological Seminary-Cambridge Assumption College of Woreester-Worces-Atlantie Union College-Lancaster Boston College—Chestnut Hill Ecelesiastical Boston Seminary (St John's)-Brighton Boston University—Boston Clark University—Worcester College of the Holy Cross-Worcester

Roston Eastern Nazarene College-Wollaston Emerson College of Oratory—Boston Emmanuel College—Boston

College

of

Episcopal . Theological Seminary-Cambridge

College of Our Lady of the Elms-Chicopee

Physicians and Surgeons-

Gordons College of Theology and Missions-Boston

Harvard University-Cambridge Hehrew Teachers' College-Boston International Y.M.C.A. College-Spring-

Jackson College-Medford

Lowell Textile School-Lowell Massachusetts State College-Amherst Massachusetts College of Osteopathy-Boston

Massachusetts College of Pharmacy—Bos-

Massachusetts Department of Education: State Teachers' College—Bridgewater State Teachers' College -Fitchburg

Stato Teachers' College—Framingham State Teachers' College-Loweli State Teachers' College-Salem

State Teachers' College-Worcester Massachusetts School of Art-Boston Massachusetts Institute of Technology-

Cambridge Middlesex College of Medicine and Surgery—Cambridge

Mount Holyoke College-South Hadley New England Conservatory of Music-

Northeastern University—Boston Portia Law School—Boston

Radeliffe College-—Cambridge Regis College for Women (The)—Newton

and Weston

Simmons College—Boston Smith College-Northampton Suffolk Law School-Boston

The Teachers College of the City of Boston-Boston

The Newton Theological Institution-Newton

Tufts College-Medford Wellesley College—Wellesley Wheaton College—Norton Williams College-Williamstown

Worcester Polytechnic Institute-Worcester

RHODE ISLAND

Rhode Island State College-Kingston Rhode Island College of Education-Providenco

Brown University—Providence (Including Pembroke College for Women.)

Providence College—Providence

Rhode Island College of Pharmacy and Allied Sciences-Providence

Rhode Island School of Design-Providence

Bryant Stratton College-Providence New England College of Podiatry-Provi-

CONNECTICUT

Albertus Magnus College—New Haven Berkeley Divinity School-Middletown (Episcopal)

City Normal School—Bridgeport Connecticut Agricultural College-Storrs Connecticut College for Women-New London

Hartford Seminary Foundation-Hartford (Interdenominational)

Hartford Theological Seminary—Hartford (Ortho, Cong.)

State Normal School-Danbury State Normal School-New Britain

State Normal School—New Haven State Normal School—Willimantie Trinity College-Hartford

Wesleyan University-Middletown Yale University-New Haven

(Academic, Fine Arts, Forestry, Law, Medical, Music, Scientific and Theological Departments.)

RADIO STATIONS OF NEW ENGLAND.

Connecticut Connecticut Connecticut Bridgeport WICC Bridgeport Broadcasting Station (500 w Ls) 600 (500 w	State & Otto Coll Loader	Licensee, studio and transmitter	Fa.	
Bridgeport WICC	State & City Call Letter	location	Power Fre	quency
Hartford WDRC WDRC Hartford WDRC Hartford WDRC Che, Hartford Conn. WDRC Hartford Conn. WDRC Hartford Conn. Connecticut Agricultural College, 250 w 600		Bridgeport Broadcasting Station,	(250 w)	600
Storrs	Hartford WDRC	Inc., Bridgeport, Conn. WDRC, Inc., Hartford, Conn.	(500 w LS) 500 w	1330
Maine Augusta WRDO WRDO, Inc., Augusta, Me. 100 w 1370 Bangor WABI First Universalist Society of Bangor 100 w 1200 Bangor WLBZ Maine Main		ice Corp., Hartford, Conn. Connecticut Agricultural College,		
Augusta Ward Ward Bangor Ward Ward First Universalist Society of Bangor 100 w 1200	Maine	Storrs, Conn.		
Bangor WLBZ Maine Brdestg, Co., Inc., Bangor, 500 w 620 Me. Congress Square Hotel Co., Portland Maine Maine Aroostook Brdestg, Corp., Presque 100 w 1420 1420 151c, Me. 1520	Augusta WRDO	First Universalist Society of Bangor		
Portland	Bangor WLBZ	Maine Brdestg. Co., Inc., Bangor,	500 w	620
Presque Isle	Portland WCSH	Congress Square Hotel Co., Port-	1 kw	940
Boston		land, Maine Aroostook Brdcstg. Corp., Presque	100 w	1420
Boston WBZ Mass. Boston Westinghouse Electric & Mfg. Co., Boston 25 kw4 990 Boston Boston WEEI Edison Electric Illuminating Co., It kw 590 Boston 1 kw 590 Boston Boston WHOH Mass. 1 kw 1500 Wass Boston WLOE Boston Brdcstg. Co., Boston (100 w) (250 w LS) 1230 Boston Boston WNAC Shepard Brdcstg. Service, Inc., Boston, Mass. 1 kw 1230 Boston Fall River WSAR Doughty & Welch Electric Co., Inc., Fall River, Mass. 250 w LS) 1230 Boston Lexington WLEY Wheeler, trading as Lexington Air Station, Lexington, Mass. (100 w) (250 w LS) 1370 Boston Mass. Needham WBSO Broadcasting Service Organization, Mass. (100 w) (250 w LS) 1370 Boston, Mass. New Bedford WNBH Broadcasting Service Organization, Mass. 100 w (D) 920 Boston, Mass. Springfield WBZA Westinghouse Electric & Mfg. Co., New Bedford 100 w (D) 1310 Boston, Mass. Worcester WGR Alfred Frank Kleindienst, Worcester, Mass. 100 w (D) <td< td=""><td> </td><td></td><td></td><td></td></td<>				
Boston WBZ Boston Bost	Boston WAAB		500 W	1410
Boston WEEI Edison Electric Illuminating Co., Boston Bosto	Boston WBZ	Westinghouse Electric & Mfg. Co., Boston, Mass.	25 kw4	990
Boston	Boston WEEI	Edison Electric Illuminating Co.,	1 kw	590
Boston	Boston WHDH	Matheson Radio Co., Inc., Boston,	1 kw (LT)	830
Boston	Boston WLOE			1500
Fall River	Boston WNAC			1230
Lexington WLEY ington Air Station, Lexington, (250 w LS) 1370 Mass. Needham WBSO Broadcasting Service Organization, Inc., Needham, Mass. New Bedford WNBH Inc., Needham, Mass. New Bedford WNBH Bedford Brdestg. Co., New Bedford, Mass. Springfield WBZA Boston, Mass. Worcester WORC Boston, Mass. Worcester WTAG Worcester, Mass. New Hampshire Laconia WKAV Manchester WFEA2 Netsinghouse Electric & Mfg. Co., 1 kw 990 moston, Mass. New Hampshire Laconia WKAV Manchester WFEA2 N. H. Broadcasting Co., Manchester WFEA2 N. H. Broadcasting Co., Manchester N. H. Granite State Broadcasting Co. 250 w (D) 740 most mouth WEAN Shepard Broadcasting Service, Inc., Providence WEAN Providence WEAN Providence WEAN Providence WEAN Providence WEAN Providence WEAN Providence WPRO Cherry & Webb Broadcasting Co., 100 w 1210 most multiply with the following the finite of the finit	Fall River WSAR	Doughty & Welch Electric Co.,	250 w	1450
Needham WBSO Broadcasting Service Organization, 500 w (D) 920 Inc., Needham, Mass. 100 w 1310 13	Lexington WLEY	Carl S. Wheeler, trading as Lexington Air Station, Lexington,	(100 w) (250 w LS)	1370
New Bedford . WNBH Redford Brdcstg. Co., New Bed- ford, Mass. Springfield . WBZA Springfield . WBZA Westinghouse Electric & Mfg. Co., 1 kw 990 Boston, Mass. Worcester . WORC Alfred Frank Kleindienst, Wor- cester, Mass. Worcester Telegram Puhlishing 250 w 580 Co., Inc., Worcester, Mass. New Hampshire Laconia WKAV Manchester . WFEA2 Portsmouth WHEB Granite State Broadcasting Co., Man- chester, N. H. Granite State Broadcasting Co. 250 w (D) 740 Rhode Island Newport WMBA Providence . WEAN Providence . WEAN Providence . WEAN Providence . WJAR Providence . WPRO Cherry & Wehb Broadcasting Co., 100 w 1210 The Outlet Co., Providence, R. I. (250 w) (500 w LS)	Needham WBSO	Broadcasting Service Organization,	500 w (D)	920
Springfield WBZA Boston, Mass. Worcester WORC Alfred Frank Kleindienst, Wor- 100 w 1200 cester, Mass. Worcester	New Bedford WNBH	Irving Vermilya, trading as New Bedford Brdcstg. Co., New Bed-	100 w (250 LS)	1310
Worcester WORC Alfred Erank Kleindienst, Wor- cester, Mass. 100 w 1200 cester, Mass. Worcester WTAG Worcester Telegram Puhlishing Co., Inc., Worcester, Mass. 250 w 580 New Hampshire Laconia WKAV Manchester Laconia Radio Cluh, Laconia, N.H. 100 w 1430 chester, N. H. Broadcasting Co., Man-500 w 1430 chester, N. H. Granite State Broadcasting Co. 250 w (D) 740 Rhode Island Newport WMBA Cranite State Broadcasting Co. 250 w (D) 780 chester, N. H. 100 w 1500 model. 780 chester, R. I. 100 w 1500 model. 890 chester, R. I. 100 w 1	Springfield WBZA	Westinghouse Electric & Mfg. Co.,	1 kw	990
Worcester WTAG Worcester Telegram Puhlishing Co., Inc., Worcester, Mass. New Hampshire Laconia WKAV Manchester . WFEA2 N. H. Broadcasting Co., Man-500 w 1310 chester, N. H. Granite State Broadcasting Co. 250 w (D) 740 Rhode Island Newport WMBA Providence WEAN Providence R. I. Shepard Broadcasting Service, Inc., Providence WJAR The Outlet Co., Providence, R. I. (250 w) (250 w) LS) Providence WPRO Cherry & Wehb Broadcasting Co., 100 w 1210 Vermont Burlington WCAX Burlington Daily News, Inc., Burlington WCAX Philip Weiss Music Co., Rutland, 100 w 1500 wc. Shepringfield WNSX Broadcasting Corp. 250 (D) 1370 Springfield WNSX Broadcasting Corp. 250 (D) 1370 Springfield WNSX Broadcasting Corp. 250 (D) 1260 WNST Springfield, Vt. Harry C. Whitehill, Waterbury, Vt. 500 w (D) 550	Worcester WORC	Alfred Frank Kleindienst, Wor-	100 w	1200
Laconia	Worcester WTAG	Worcester Telegram Publishing	250 w	580
Manchester WFEA2 chester N. H. Broadcasting Co., Manuchester 500 w 1430 chester Portsmouth WHEB Granite State Broadcasting Co. 250 w (D) 740 Rhode Island Newport WMBA Leroy Joseph Beehe, Newport, R. I. 100 w 1500 w Providence WEAN Shepard Broadcasting Service, Inc., Providence, R. I. (250 w) (500 w LS) 780 (500 w LS) Providence WPRO Cherry & Wehb Broadcasting Co., Providence, R. I. (250 w) (500 w LS) 1210 w Vermont Burlington Daily News, Inc., Burlington, Vt. 100 w 1200 w Rutland WSYB Phillip Weiss Music Co., Rutland, Vt. 100 w 1500 w St. Alhans WQDM Springfield A. J. St. Antoine, St. Alhans, Vt. 100 w (D) 1370 w Springfield, Vt. Harry C. Whitehill, Waterbury, Vt. 500 w (D) 550	_			1
Portsmouth WHEB Granite State Broadcasting Co. 250 w (D) 740	Manchester WFEA2	N. H. Broadcasting Co., Man- chester, N. H.		
Newport WMBA Leroy Joseph Beehe, Newport, R. I. 100 w 1500 780 Providence WEAN Shepard Broadcasting Service, Inc., Providence, R. I. (250 w) (500 w LS) 780 Providence WJAR The Outlet Co., Providence, R. I. (250 w) (500 w LS) 890 Providence WPRO Cherry & Wehb Broadcasting Co., Providence, R. I. 100 w 1210 Vermont Burlington WCAX Burlington Daily News, Inc., Burlington, Vt. 100 w 1200 Rutland WSYB Phillip Weiss Music Co., Rutland, Vt. 100 w 1500 St. Alhans WQDM A. J. St. Antoine, St. Alhans, Vt. 100 w (D) 1370 Springfield WNBX Broadcasting Corp. 250 (D) 1260 Springfield, Vt. Harry C. Whitehill, Waterbury, Vt. 500 w (D) 550	Portsmouth WHEB	Granite State Broadcasting Co.	250 w (D)	740
Providence WEAN Providence Shepard Broadcasting Service, Inc., Providence, R. I. (250 w) (500 w LS) 780 (500 w LS) Providence WJAR The Outlet Co., Providence, R. I. (250 w) (500 w LS) 890 (500 w LS) 1210 Vermont Burlington WCAX Burlington Daily News, Inc., Burlington, Vt. 100 w 1200 (100 w LS) 1200 (100 w LS) Rutland WSYB Philip Weiss Music Co., Rutland, Vt. 100 w 1500 (250 (D) 1500 (D) St. Alhans WQDM A. J. St. Antoine, St. Alhans, Vt. 100 w (D) 1370 (250 (D) Springfield WNBX Broadcasting Corp. 250 (D) 1260 (D) Springfield, Vt. Harry C. Whitehill, Waterbury, Vt. 500 w (D) 550 (D)				1
Providence WJAK The Outlet Co., Providence, R. I. (250 w) (500 w LS)	Newport WMBA Providence WEAN	Shepard Broadcasting Service, Inc.,		
Vermont Burlington WCAX Burlington Daily News, Inc., Bur- 100 w 1200 lington, Vt. Rutland WSYB Philip Weiss Music Co., Rutland, 100 w 250 (D) St. Alhans WQDM A. J. St. Antoine, St. Alhans, Vt. 100 w (D) 1370 Springfield WNBX WNBX Broadcasting Corp. 250 (D) Springfield, Vt. Waterbury WDEV Harry C. Whitehill, Waterbury, Vt. 500 w (D) 550		The Outlet Co., Providence, R. I.	(250 w)	890
Burlington WCAX Burlington Daily News, Inc., Burlington w 1200 Rutland WSYB Philip Weiss Music Co., Rutland, 100 w 1500 Vt. 250 (D) St. Alhans WQDM A. J. St. Antoine, St. Alhans, Vt. 100 w (D) 1370 Springfield WNBX Broadcasting Corp. Springfield, Vt. Waterbury WDEV Harry C. Whitehill, Waterbury, Vt. 500 w (D) 550		Cherry & Webb Broadcasting Co., Providence, R. I.		1210
Rutland WSYB Philip Weis Music Co., Rutland, 100 w 250 (D)		T		1
St. Alhans WQDM A. J. St. Antoine, St. Alhans, Vt. 100 w (D) 1370 Springfield WNBX WNBX Broadcasting Corp. 250 (D) 1260 Springfield, Vt. Harry C. Whitehill, Waterbury, Vt. 500 w (D) 550		Ington, Vt.		1200
St. Alhans		V τ.	100 w 250 (D)	1500
Waterbury WDEV Harry C. Whitehill, Waterbury, Vt. 500 w (D) 550		WNBX Broadcasting Corp.	100 w (D)	
(-) 000	Waterbury WDEV	Springfield, Vt.		
	D—Day tir			990

COURTS IN NEW ENGLAND

Below are given the names of the places where the different Court Records are kept in the custody of the Clerks of Court, Registers of Prohate or other such officers. United States-First and Second Circuits.

FIRST CIRCUIT. Circuit Court of Appeals at Boston;—District Court of Maine at Portland;—of Massachusetts at Boston;—of New Hampshire at Concord;—of Rhode Island at Providence.

Second Chrouit. Circuit of Appeals at New York City;—District Court of Vermont at Burlington;—of Connecticut at New Haven;—Northern District of New York at Utica;—Eastern District of New York at Brooklyn;—Southern District of New York at New York City;—Western District of New York at Buffalo.

Maine.

The Supreme Judicial Court holds eight Law Terms, five at Augusta and three at Portland. This is the Court of last resort. It also meets in several counties for Equity and other matters as occasion requires. The Superior Court which is a Circuit Court holds terms in the sixteen counties of the State, terms comprising a minimum of two in Lincoln and Piscataquis, and a maximum of ten in Cumherland County.

Superior Court convenes in the following places: Androscoggin County at Auhurn, Aroostook County at Houlton or Caribou, Cumberland County at Portland, Franklin County at Farmington, Hancock County at Ellsworth, Kennehec County at Augusta or Waterville, Knox County at Rockland, Lincoln County at Wiscasset, Oxford County at South Paris or Rumford, Penobscot County at Bangor, Piscataquis County at Dover-Foxeroft, Sagadahoc County at Bath, Somerset County at Skowhegan, Waldo County at Belfast, Washington County at Machias or Calais, and York County at Alfred.
Superior Court is a trial court. Clerks of the Supseveral counties are also Clerks of the Superior Court.

Clerks of the Supreme Judicial Courts in the

Probate Courts are County Courts and meet in the County seat of each county.

New Hampshire.

Supreme Court at Concord; -Superior Court and Prohate Courts:—Rocking Supreme Court at Concord;—Superior Court and Fronate Courts:—Rocking ham Co. at Exeter;—Strafford Co. at Dover;—Belknap Co. at Laconia;—Carroll Co. at Ossipee;—Merrimack Co. at Concord;—Hillsborough Co. at Nashua and Manchester;—Cheshire Co. at Keene;—Sullivan Co. at Newport;—Grafton Co. at Woodsville;—Coos Co. at Lancaster.—Vernant Vermont.

Supreme Court, County Court and Court of Chancery:—Addison Co. at Middlehury;—Bennington Co. at Bennington;—Caledonia Co. at St. Johnshury;—Chittenden Co. at Burlington;—Essex Co. at Guildhall;—Franklin Co. at St. Alhans;—Grand Isle Co. at North Hero;—Lamoille Co. at Hyde Park;—Orange Co. at Chelsea;—Orleans Co. at Newport;—Rutland Co. at Rutland;—Washington Co. at Montpelier;—Windham Co. at Brattleboro;—Windsor Co. at Woodstock. Prohate Courts:—Where the Prohate District consists of an entire Court its records are in the same places above. Other Prohate records are Woodstock. Fronate Courts:—Where the Fronate District consists of an entire County its records are in the same places above. Other Prohate records as follows:—Addision Dist. at Middlehury;—New Haven Dist. at Vergennes;—Bennington Dist. at Bennington;—Manchester Dist. at Manchester;—Bradford Dist. at Wells River;—Randolph Dist. at Chelsea;—Rutland Dist. at Rutland;—Fairhaven Dist. at Castleton;—Marlboro Dist. at Brattlehoro;—Westminster Dist. at Bellows Falls;—Windsor Dist. at Ludlow;—Hartford Dist. at Woodstock. The records of each Probate District are in the custody of its Judge of Prohate. Massachusetts.

Supreme Judicial Court for the Commonwealth at Boston. Supreme Judicial Court, Superior Court, and Prohate Courts:—Barnstable Co. at Barnstahle;—Berkshire Co. at Pittsfield;—Bristol Co. at Taunton;—Dukes Co. at Edgartown, (see helow);—Essex Co. at Salem;—Franklin Co. at Greenfield;—Hampden Co. at Springfield;—Hampshire Co. at Northampton;—Middlesex Co. at Cambridge;—Nantucket Co. at Nantucket, (see helow);—Norfolk Co. at Dedham;—Plymouth Co. at Plymouth;—Suffolk Co. at Boston;—Worcester Co. at Worcester;—except that the records of the Supreme Judicial Court in cases arising in the Counties of Dukes County and Nantucket are at Taunton. Land Court at Boston.

Rhode Island. Court at Boston.

Supreme Court at Providence. Superior Court:—Providence and Bristol Counties at Providence;—Kent Co. at East Greenwich;—Washington Co. at South Kingstown;—Newport Co. at Newport. In each City and Town there is a Court having Prohate jurisdiction within its limits. In towns which have not elected a Judge of Prohate the Town Councils act as Prohate Courts.

Counecticut. Supreme Court of Errors:—All sessions at Hartford. Superior Court:—Hartford Supreme Court of Errors:—All sessions at Hartford. Superior Court:—Hartford Co. at Hartford; and at Danhury (at Bridgeport and Danhury);—New Haven Co. at New Haven and Waterbury;—Fairfield Co. at Bridgeport;—New London Co. at Norwich;—Litchfield Co. at Winsted;—Middlesex Co. at Middletown;—Windham Co. at Putnam;—Tolland Co. at Rockville. Courts of Common Pleas for such Counties as have these Courts are as follows:—Hartford Co. at Hartford;—New Haven Co. at New Haven;—Fairfield Co. at Bridgeport;—New London Co. at Norwich;—Litchfield Co. at Litchfield and Common Pleas Court, for Waterhury Judicial District. There are 113 Prohate Districts;—84 of these Districts consist of one town only; each of the remaining Districts comprises more than one consist of one town only; each of the remaining Districts comprises more than one The records of each District are in the custody of its Judge of Probate.

STATE ELECTIONS IN NEW ENGLAND.

In all the New England States, Legislatures and Governors are now elected every second year. The next elections will be in 1934. All these elections are on the Tuesday next after the first Monday in November, except that in Maine, which is on the second Monday in September.

LEGISLATURES IN NEW ENGLAND.

SESSIONS COMMENCE AS FOLLOWS:

Maine. First Wednesday of January, 1933, and each alternate year.

New Hampshire. First Wednesday of January, 1933, and each alternate year. Vermont. Wednesday after the first Monday of January, 1933, and each alternate year.

Massachusetts. First Wednesday of January, each year.

Rhode Island. First Tuesday of January, each year.

Connecticut. Wednesday after the first Monday of January, 1933, and each alternate year.

HOLIDAYS IN NEW ENGLAND.

The following days are legal Holidays. If the day falls on Sunday the day following is usually kept as a Holiday. Thanksgiving and Fast are appointed by State or National authority.

Maine. Feb. 22, Apr. 19. May 30, July 4, 1st Mon. Sept., Nov. 11, Thanksgiving and Christmas. Jan. 1 is a Bank and School Holiday but not a Legal Holiday. New Hampshire. Jan. 1. Feb. 22, Fast, May 30, July 4, 1st Mon. Sept., Oct. 12, Nov. Election Day, Nov. 11, Thanksgiving and Christmas. Vermont. Jan. 1, Feb. 22, May 30, July 4, Aug. 16, 1st Mon. Sept., Oct. 12, Nov. 11, Thanksgiving and Christmas. Massachusetts. Jan. 1, Feb. 22, Apr. 19, May 30, July 4, 1st Mon. Sept. Oct. 12, Nov. 11, Thanksgiving and Christmas. Rhode Island. Jau. 1, Feb. 22, 2d Fri. May, May 30, July 4, 1st Mon. Sept., Oct. 12, Nov. Election Day, Nov. 11, Thanksgiving and Christmas. Connecticut. Jan. 1, Feb. 12, Feb. 22, Fast, May 30, July 4, 1st Mon. Sept., Oct. 12, Nov. 11, Thanksgiving and Christmas.

UNITED STATES WEATHER BUREAU.

Small Craft Warning. A red pennant indicates that moderately strong winds that will interfere with the safe operation of small craft are expected. No night display of small craft warnings is made.

Northeast Storm Warning. A red pennant above a square red flag with black center displayed by day, or two red lanterns, one above the other, displayed by night, indicates the approach of a storm of marked violence with winds beginning from the northeast.

Southeast Storm Warning. A red penuant below a square red flag with black center displayed by day, or one red lantern displayed by night, indicates the approach of a storm of marked violence with winds beginning from the southeast.

Southwest Storm Warning. A white pennant below a square red flag with black center displayed by day, or a white lautern below a red lantern displayed by night, indicates the approach of a storm of marked violence with winds beginning from the southwest.

Northwest Storm Warning. A white peunant above a square red flag with black center displayed by day, or a white lantern above a red lantern displayed by night, indicates the approach of a storm of marked violeuce with wiuds beginning from the northwest.

Hurricane, or Whole Gale Warning. Two square flags, red with black centers, one above the other, displayed by day, or two red lauterns, with a white lantern between, displayed by night, indicate the approach of a tropical hurricane, or of one of the extremely severe and dangerous storms which occasionally occur.

PRESIDENT AND VICE-PRESIDENT.

 President
 Franklin D. Roosevelt
 New York

 Vice-President
 John N. Garner
 Texas

Members of the Cabinet (Up to March 4, 1933, when new Cabinet will be appointed by the President-Elect)—Secretary of State, Henry L. Stimson, New York; Secretary of the Treasury, Ogden L. Mills, New York; Secretary of War, Fatrick J. Hurley, Oklahoma; Attorney General, William D. Mitchell, Minnesota; Postmaster General, Walter F. Brown, Ohio; Secretary of the Navy, Charles F. Adams, Massachusetts; Secretary of the Interior, Ray Lyman Wilbur, California; Secretary of Agriculture, Arthur Mastick Hyde, Missouri; Secretary of Commerce, Robert P. Lamont, Illinois; Secretary of Labor, William Nuckles Doak, Virginia.

MEMBERS 73RD CONGRESS FROM NEW ENGLAND. (1st Session, 1933)

R-Republican

D—Democrat

SENATORS

Terms expire March 4th In the year following each name Maine.—Wallace H. White, Jr., R., Lewiston, 1937; Frederick Hale, R., Portland, 1935. New Hampshire.—Fred H. Brown, D., Somersworth, 1939; Henry Wilder Keyes, R., Haverhill, 1937. Vermont.—Warren R. Austin, R., Burlington, 1937; Porter Hiuman Dale, R., Island Pond, 1939. Massachusetts.—David I. Walsh, D., Fitchburg, 1935; Marcus A. Coolidge, D., Fitchburg, 1937. Rhode Island.—Felix Hebert, R., West Warwick, 1935; Jesse H. Metcalf, R., Providence, 1937. Connecticut.—Frederic Collin Walcott, R., Norfolk, 1935; A. Lonergan, D., Hartford, 1939.

REPRESENTATIVES

Terms of all expire March 4th, 1935

Maine.—1st District, Carroll L. Beedy, R., Fortland; 2nd District, Edward C. Moran, Jr., D., Rockland; 3rd District, John G. Utterback, D., Bangor. New Hampshire.—1st District, William N. Rogers, D., Wakefield; 2nd District, Charles H. Tobey, R., Temple. Vermont.—At Large, E. W. Gibson, R., Brattleboro. Massachusetts.—1st District, Allen T. Treadway, R., Stockbridge; 2nd District, William J. Granfield, D., Longmeadow; 3rd District, Frank H. Foss, R., Fitchburg; 4th District, Pehr G. Holmes, R., Worcester; 5th District, Edith N. Rogers, R., Lowell; 6th District, A. Piatt Andrew, R., Gloucester; 7th District, William P. Connery, Jr., D., Lynn; 8th District, Arthur D. Healey, D., Somerville; 9th District, Robert Luce, R., Waltham; 10th District, George Holden Tinkham, R., Boston; 11th District, John J. Douglass, D., Boston; 12th District, John W. McCormack, D., Boston; 13th District, Richard B. Wigglesworth, R., Milton; 14th District, Joseph W. Martin, Jr., R., North Attleboro; 15th District, Charles L. Gifford, R., Barnstable. Rhode Island.—1st District, Francis B. Condon, D., Central Falls; 2nd District, John M. O'Connell, D., Providence. Connecticut.—At Large, Charles M. Bakewell, R., New Haven; 1st District, Herman P. Koppleman, D., Hartford; 2nd District, William L. Higgins, R., Coventry; 3rd District, Francis T. Maloney, D., Meriden; 4th District, Schuyler Merritt, R., Stamford; 5th District, Edward W. Goss, R., Waterbury.

UNITED STATES SUPREME COURT

Chief Justice, Charles Evans Hughes, of N. Y.; Associate Justices—Benjamin N. Cardozo, of N. Y.; Willis Van Devanter, of Wyoming; James C. McReynolds, of Tennessee; Louis D. Brandeis, of Massachusetts; George Sutherland, of Utah; Pierce Butler, of Minnesota; Owen Josephus Roberts, of Pennsylvania; Harlan F. Stone, of New Hampshire.

PRESIDENTS OF THE UNITED STATES

Pol	i- Native			Age at	Date of	Age at
No. and Name tic		Born	Inaug.	Inaug.	Death	Death
1. George WashingtonFed	Va.	1732, Feb. 22	1789	57	1799, Dec. 14	67
2. John Adams Fed	Mass.	1735, Oct. 30	1797		1826, July 4	
3. Thomas Jefferson Rep		1743, Apr. 13		57	1826, July 4	
4. James MadisonRep		1751, Mar. 16	1809		1836, June 28	85
5. James Monroe Rep	. Va.	1758, Apr. 28			1831, July 4	73
6. John Quincy Adams Rep	. Mass.	1767, July 11			1848, Feb. 23	
7. Andrew Jackson Den	n. N. C.	1767, Mar. 15			1845, June 8	78
8. Martin Van Buren Den		1782, Dec. 5	1837		1864, July 24	79
9. William Henry Harrison Whi	g Va.	1773, Feb. 9			1841, Apr. 4	68
10. John Tyler Den		1790, Mar. 29			1862, Jan. 17	71
11. James Knox Polk Den		1795, Nov. 2			1849, June 15	53
12. Zachary Taylor Whi		1784, Nov. 24			1850, July 9	65
13. Millard Fillmore Whi		1800, Jan. 7	1850		1874, Mar. 8	74
14. Franklin Pierce Den		1804, Nov. 23	1853		1869, Oct. 8	64
15. James Buchanan Den		1791, Apr. 23	1857		1868, June 1	77
16. Abraham Lincoln Rep		1809, Feb. 12			1865, Apr. 15	56
17. Andrew Johnson Rep		1808, Dec. 29			1875, July 31	66
18. Ulysses Simpson Grant Rep		1822, Apr. 27			1885, July 23	63
19. Rutherford Birchard Hayes Rep		1822, Oct. 4	1877		1893, Jan. 17	70
20. James Abram Garfield Rep		1831, Nov. 19	1881		1881, Sept. 19	49
21. Chester Alan Arthur Rep		1830, Oct. 5	1881		1886, Nov. 18	56
22. Grover Cleveland Den		1837, Mar. 18			1908, June 24	71
23. Benjamin HarrisonRep	. Ohio	1833, Aug. 20			1901, Mar. 13	67
24. Grover Cleveland Den		1837, Mar. 18			1908, June 24	71
25. William McKinley Rep		1843, Jan. 29			1901, Sept. 14	58
26. Theodore Roosevelt Rep.		1858, Oct. 27	1901		1919, Jan. 6	61
27. William Howard Taft Rep		1857, Sept. 8	1909		1930, Mar. 8	72
28. Woodrow Wilson Den		1856, Dec. 28			1924, Feb. 3	67
29. Warren Gamaliel Harding Rep.		1865, Nov. 2	1921		1923, Aug. 2	58
30. Calvin Coolidge Rep.		1872, July 4	1923	51		
31. Herbert Clark Hoover Rep.		1874, Aug. 10		54		
32. Franklin Delano Roosevelt Dem	. N. Y.	1882, Jan. 30	1933	51		

RELIGIOUS AFFILIATIONS

Friends (Quakers)--Hoover. Episcopalians—Washington, Madison, Monroe, Gen. W. H. Harrison, Tyler, Taylor, Plerce, Arthur, F. D. Roosevelt. Presbyterians—Jackson, Polk, Buchanan, Cleveland, Benj. Harrison, Wilson.

Methodists—Johnson, Grant, McKinley. Unitarian—John Adams, J. Q. Adams, Fillmore, Taft.

Reformed Dutch-Van Buren, T. Roosevelt. Baptist-Harding.

Congregationalist-Coolidge.

Disciples-Garfield.

Jefferson and Lincoln did not claim membershlp in any denomination. Hayes attended the Methodist Church, but never joined.

ANCESTRY

Swiss—Hoover.
English—Washington, J. Adams, Madlson, J. Q. Adams, W. H. Harrison, Tyler, Taylor, Fillmore, Plerce, Lincoln, Johnson, Grant, Garfield, Cieveland, B. Harrison. Taft, Harding, Coolidge.

Welsh—Jefferson (a family tradition).
Scotch—Monroe, Hayes.
Scotch—Monroe, Hayes.
Scotch—Jrish—Jackson, Polk, Buchanan, Arthur, McKinley, Wilson.
Dutch—Van Buren, T. Roosevelt, F. D. Roosevelt.

Roosevelt.

The following Presidents were lawyers-J. Adams, Jefferson, Madison, Monroe, J. Q. Adams, Jackson, Van Buren, Tyler, Polk, Fillmore, Pierce, Buchanan, Lincoln, Hayes, Garfield, Cleveland, B. Harrlson, McKlnley, Taft, Wllson, Coolldge, F. D. Roosevelt.

Washington was a planter and surveyor; Andrew Johnson, a tallor; Hoover, a mlning engineer.

SESSIONS OF THE CONTINENTAL CONGRESS

Phlladelphla, Sept. 5, 1774, to Oct. 26, 1774; May 10, 1775, to Dec. 12, 1776. Baltimore, Dec. 20, 1776 to Mch. 4,1777. Philadelphla, Mch. 4, 1777, to Sept. 18,

1777. Lancaster, Pa., Sept. 27, 1777, to Sept.

27, 1777. York, Pa., Sept. 30, 1777, to June 27,

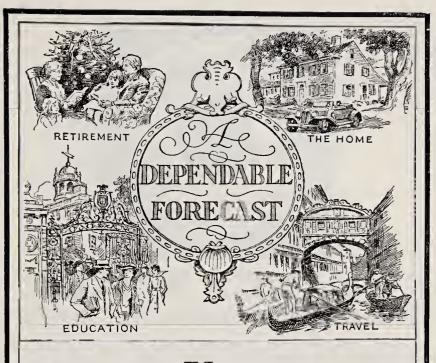
Phlladelphla, July 2, 1778, to June 21, 1783.

Princeton, N. J., June 30, 1783, to Nov. 4, 1783.

Annapolls, Md., Nov. 26, 1783, to June 3 .1784.

Trenton, N. J., Nov. 1, 1784, to Dec. 24, 1784.

New York City, Jan. 11, 1785, to Nov. 4, 1785; Nov. 7, 1785, to Nov. 3, 1786; Nov. 6, 1786, to Oct. 30, 1787; Nov. 5, 1787, to Oct. 21, 1788.



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ALLSPICE

MUSTARD CLOVES PIMENTO

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With Bell's Seasoning any housewife need not worry about flavor when turkey-time comes. It's an all-year product. Use it in stews, casseroles, meat loaves, soups and for roast fowl, roast meats and baked fish,



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1933 hath 180 school days.



When Duty whispers low "Thou must," The youth replies, "I can."

-RALPH WALDO EMERSON.

Features, Holidays, Etc.

Chandler's Calendar

1 Happy New Pear to All. Jan.

lan. 2|Xmas vacation ends. 20 Forum Speaker Col. Carroll J. Swan, Pres. Boston Adv. Club.

Feb. 17 Halentine Party. In School Auditorium.
Feb. 22 Washington's Birthday. No School this day.
Mar. 17 Annual Senior Prom. In Ritz-Carlton Ball Room.
State Lasts.

Mar. 24 Spring Vacation Starts. Lasts till April 8.

Apr. 13 Closing Exercises of Evening Division.

Apr. 14 Forum Speaker President F. P. Speare, Northeastern Univ.

Apr. 19 Patriots' Day. No School this day.

Apr. 22 Alumnat Brunian. Copley Plaza llotel.

Apr. 22 Attuninar Literature. Hotel.

May 30 Memorial Day. No School this day.

June 16 Class Day. Commencement Dance Marblehead, Mass.

June 20 Graduation Exercises. Repertory.

Till April 19 Marse Classes and Ill.

June 21 No More Classes Sept. 11

5 Applications for Admission Comingin. July

1 Visitors at School, More Applications. by mail. (1 to 31).
4 Labor Day, A day of rest for all.

Sept. 11 School Opens For it's 50th year.

Sept. 22 Acquaintance Party.

Sept. 25 Registration and Opening of Evening Division.

9 Election of Student Council Members.
12 Columbus Day, No Classes this day. Oct. Oct.

27 Hallowe'en Party. In School Auditorium.

Nov. 11 Armistice Pay. No School this day.
Nov. 30 Thanksgiving Day. A three-day variation period.
Dec. 22 Finas Party. Vacation starts today.

Dec. 25 A Merry Christmas to All.

In this year of stress a business education for a New England girl is particularly desirable.

For fifty years the Chandler School of Business has successfully trained and placed in desirable po-sitions thousands of the finest types of New England girls.

The Chandler School has a well-deserved reputation throughout New England for,—

1. Its high standards.

2. The success of its graduates.

Its most modern and complete methods of instruction.

4. Its faculty and equipment.

5. The personnel of its pupils.

Its extra curricula activities. ${f T}$ herefore:-

A Chandler School training is an asset for life.

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Stenographic, executive and cultural courses.

An enjoyable school term pleasant surroundings with delightful associations, combined with an unequaled training for a successful secretarial career.

A complete story of our educational opportunities will be sent to you promptly upon request—or better still, visit us at 161 Massa-chusetts Avenue, in the educational section of Boston's historic Back

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THE BEST CAKE OF SOAP IN THE WORLD

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I-CAR-DE Mayonnaise Still Maintains Its Quality

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I-CAR-DE Italian Style Spaghetti in glass jars

are just as delicious as I-CAR-DE Mayonnaise

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Dorchester, Mass.

LYNN DELUXE OIL BURNERS

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LYNN PRODUCTS COMPANY

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Lynn, Mass.

or

See the Lynn Dealer in Your Town

SATURDAY—52 Bean Suppers a Year—(1933)



YE OLD BEAN POT

I cannot tell what Vitamins within this pot are found, Or just how many Calories may be reckoned to the pound; But well I know its merits and loud its praise I sing, For it's a dish that is quite fit to set before a king!

Mont	Legal Holidays & Bean Nights	
Jan.	Celebrate New Year's Day on Mon- day, January 2nd—serve B & M Baked Beans four Saturdays.	Si
FEB.	Washington's Birthday, Wednesday, February 22nd. Also four B & M Bean Saturdays.	la P S
Mar.	31 days without a holiday, alas and alack! B & M Baked Beans very much appreciated this holiday-less month.	a:
Apr.	No holidays this month (except April 19th in Maine and Mass.)—but one extra Bean Night, five Saturdays in all.	te S q w
Мач	Decoration, or Memorial Day, Tuesday, May 30th. Serve B & M Oven Baked Beans every Saturday night,	P ol ti m
June	No holidays. Summer begins June 21st. The 3rd, 10th, 17th and 24th are B & M Bean Nights.	ro
July	Tuesday, July 4th, is Independence	ti th
Aug.	No legal holidays this month, but this is vacation time anyhow—so who cares? B & M Beans are great summer camp supper treats.	E tli of ni
SEPT.	Labor Day is a funny name for a holiday. It comes on Monday, September 4th. "30 days hath September—" and 5 Saturday Bean Suppers, too.	E be
Ост.	Columbus discovered America on October 12th—so we get a holiday. You can't discover finer flavor than that of B & M Oven Baked Beans.	N.
Nov.	Armistice Day, Saturday, November 11th; Thanksgiving, Thursday, November 24th. Also 4 B & M Bean Saturdays.	8
Dec.	As a Christmas (Monday, December 25th) gift, Santa Claus brings 5 Saturdays this month—one extra B & M Bean Night.	160

A Famous New England Tradition

In early Puritan days, cooking was strictly forbidden on the Sabbath—which began at sundown Saturday, and lasted until sundown Sunday. So the Puritan housewife baked beans all day Saturday, served them in the evening for supper, and for every meal on Sunday.

Of all the Puritan influences which are popularly supposed to have fastened themselves on New England, the Saturday baked bean supper is unquestionably the most lasting and widespread.

Burnham & Morrill Company, in Portland, Maine, are preserving this old New England tradition by continuing the genuine New England method of really baking beans. In rows and rows of old-fashioned brick ovens, B & M New England Oven Baked Beans are baked for you, in open pots—the original way. Not until they are ready for you to eat, are they sealed in tins.

Ask your grocer for B & M New England Oven Baked Beans, Make this delicious dish a regular feature of your menu, either as the "Saturday night baked bean supper" of Old New England times, or a substantial and hearty meal for any day in the week,

BURNHAM & MORRILL COMPANY

Portland, Maine





The Sign of Good Foods

A FAITHFUL FORECAST FOR TODAY — TOMORROW

NEXT MONTH—and NEXT YEAR



POULTRY, DAIRY and STOCK FEEDS

Bring greater satisfaction and better profits to the user.

These New England-Made Feeds stand the test of time—and are constantly being improved and perfected. You can rely on them for superior results.

SENT FREE ON REQUEST

- TO POULTRYMEN: 1933 edition of valuable booklet—
 "Timely Topics on Poultry Management." Also egg
 record card and plans for building poultry houses
 and equipment.
- TO DAIRYMEN: Milk record sheets 10 or 25 cow size, also interesting leaflets describing Wirthmore Dairy Rations.

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ST. ALBANS GRAIN CO., St. Albans, Vt.

No Wonder Folks are Going Back to

Good Old-Fashioned New England "Grub"



Sure, some of the fancy new dishes are all right but they can't take the place these days of plain, hearty food, cooked the good, old-fashioned way.

Any man, woman or kid who ever tasted hash made by the old New England recipe, relishes Prudence Corned Beef Hash like a new-found friend, with a thrill that is gratifying to see.

Piping hot, savory, crusted a golden brown, Prudence Hash wins you before the first bite and continues to satisfy every whim of appetite, every need of nourishment.

Only young, tender beef is used — no scraps, no skin, no gristle. Mealy, white Aroostook potatoes are boiled in the same water as the meat; but separately, *after* the meat has been removed and the pot skimmed of fat. You've simply got to taste Prudence Hash to realize the difference.

Costly? We should say not!—a big, husky serving for six cents. Hard to prepare? Why, all you do is open the can and brown the hash in a frying pan; takes three minutes.

Maybe you have never tasted good, old-fashioned Corned Beef Hash. Well, there's a treat waiting for you at just about every grocery store. *Only remember this:* There's as much difference in brands of hash as there is in kinds of people; so be sure you get *Prudence*.

Boston Food Products Company Boston

PRUDENCE

Ready-to-Brown CORNED BEEF HASH

P. S.—And Prudence Beef Stew and Lamb Stew are just as good as Prudence Hash.

New England Made

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Varnishes — Paints — Enamels

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* * *

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For a hundred and forty years, since the days when our country was young, readers of The Old Farmer's Almanac have turned to this publication for accurate and authentic information.

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of the physical problems that are so commou to humanity.

MINARD'S LINIMENT has become a household tradition First Aid in the treatment of all museular aches and pains, stiff joints, backache, rheumatic pains, neuralgia, bruises, sprains, headaches, frost bite, tired and burning fect. It has also been proved an ideal remedy for sore throat and colds. When rubbed in and inhaled, its soothing effect is immediate. Minard's Liniment is supplied in small, medium and

large bottles.
Although Minard's Liniment was the foundation of the business of the famous old Minard Company, of Framingham, Massachusetts, other the famous old Minard Company, or and evaling have from time to fine products of equally fine reputation and quality have from time to time

come along to meet the needs of the people as those needs grew and multiplied with the progress of New England's history and civilization.

MINARD'S ANTISEPTIC MOUTH WASH AND GARGLE. This is unexcelled as a mouth wash, deodorant and throat gargle. It is a certain preventative—safer, more powerful and less expensive. Removes the cause—sweetens and purifies the breath. Use full strength or dilute with one part water for miner throat irritations, mouth week had with one part water for minor throat irritations, mouth wash, bad breath, hoarseness, sunburn, abrasions, insect bites, burns or ents. As a nasal spray dilute with two parts water and use with atomizer. For children dilute with one part water. Minard's Antiseptic can be used freely in all natural cavities of the body as a lotion or spray. Minard's Antiseptic Mouth Wash and Gargle comes in 16 ounce, 8 curves and 2 curves better. ounce and 3 ounce bottles.

MINARD'S INHALANT. This is a safe First Aid in the treatment of head colds. Scientists have proved that one cause of colds is some-This is a safe First Aid in the treatment of head colds. Scientists have proved that one cause of colds is something smaller than a germ that enters the nostrils on particles of dust. They have also proved that these particles of dust may be discouraged by the use of Minard's Inhalant. The result is another cold avoided. Apply the Inhalant to a folded handkerchief and inhale frequently throughout the day, breathing deeply of the vapor. Also apply to pillow or clothing. Many mothers sprinkle a few drops on their children's blouses as they start for school. Thus the little folks breathe this pleasant and protective vapor all day long. Minard's Inhalant is supplied in 2 ounce and ½ ounce bottles.

MINARD'S ATHLETES' RUB offers sure and effective relief to those who suffer from tired, burning feet and contains the antiseptic that

MINARD'S ATHLETES ACTS oners sure and enertive rener to those who suffer from tired, burning feet and contains the antiseptic that kills the germ causing the dreaded Athlete's Foot. Use for eracks under the toes, simple ringworm, lame muscles, muscular stiff neek, sprains, bruises, burns, superficial congestion, insect bites or stings. This Minard's First Aid product may be used freely as a rub, best results being obtained after a hot bath. It is indispensable for those engaging in athletic sports. Minard's Athletes, Rub, is supplied in engaging in athletic sports. 16 ounce and 3 ounce bottles. Minard's Athletes' Rub is supplied in

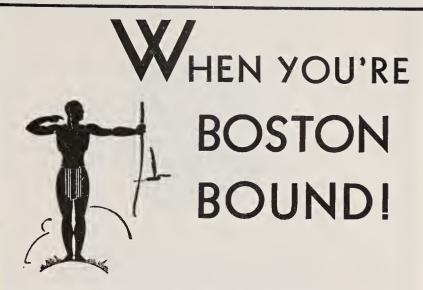
MINARD'S ALKOBALM. This well known Minard First Aid prot provides a wonderfully refreshing and invigorating massage. This well known Minard First Aid prodis delightful for use as a rubdown after bathing and is a favorite both home and hospital use being highly recommended by nurses everywhere during illness and convalescence for its cooling and invigorating qualities. Minard's Alkobalm, a rubbing alcohol, is supplied in 16

ounce and 6 ounce bottles.

Other members of the famous Minard family, the uses of which are known to all, are Minard's BAY RUM, supplied in 16 ounce and 4 ounce bottles—Minard's EAU DE QUININE (hair tonic), with sprinkler with sprinkler top in 8 ounce bottles—Minard's RUSSIAN MINERAL OIL, in 16 ounce and 32 ounce bottles—Minard's WITCH HAZEL in 16 ounce and 4 ounce bottles and Minard's MILK OF MAGNESIA in 16 ounce and 4 ounce bottles.

Members of the Minard's family of First Aid products are on sale by all leading dealers. Minard's ANTISEPTIC MOUTH WASH AND GARGLE, Minard's ATHLETES' RUB and Minard's INHALANT may be had in generous 10c sizes at the following chain stores: Woolworth's, Kresge's, Newberry's, McClellan's, and the F. & W. Grand-Silver Stores. They are also sold in larger sizes at drug and department stores. ment stores.

For information desired relative to any of its First Aid products for the home, you are invited to write to the MINARD COMPANY, FRAMINGHAM, MASSACHUSETTS, U. S. A.



HOTEL BRUNSWICK HOTEL LENOX

on either side of Copley Square

Two famous Back Bay hotels that offer you pleasant convenience of location and moderate living costs with complete and cordial hotel service!

A wide variety of dining rooms and restaurants... from the Brunswick Coffee Shop and Lenox Spa to the new Egyptian Room dinner-dance entertainments!

Room with bath: Single \$3-\$4.50—Double \$3.50-\$7. Room with running water: Single \$2.50-\$3—Double \$3-\$3.50. Special year 'round offer—3 days and 2 nights, including best outside rooms, private bath, 6 meals, Egyptian Room entertainment and theatre or sightseeing tour—all for \$10

L. C. PRIOR, President and Managing Director

HOME HEATING HINTS

Families who have never used New England Coke before find that it not only costs less per ton but also less per season, because of its high carbon content and consequently greater number of heat units per pound.

It's more economical to keep the firebox filled than to run a low fire. This is especially true of New England Coke, which gives greater heating satisfaction and comfort and lasts longer if the firebox is filled above the level of the door.

Why sift ashes? New England Coke lcaves about a barrel of ashes to the ton, and these are not worth sifting . . . another proof that this fuel is economical.

Even the little ash which New England Coke leaves should, however, be removed regularly. You will find with this or any fuel that the more room there is for air to circulate under the firebox, the greater efficiency you will get from your heater. The use of New England Coke means that ash removal is "necessary much less frequently."

Because there is so little ash, you will find in using New England Coke that the fire needs to be shaken only once in every 24 bours, and then very gently.

Because New England Coke is as nearly a pure fuel as science can devise, there are no impurities to cause soot, smoke or dust. This, together with the fact that New England Coke leaves so little ash, makes this a CLEAN fuel.

That New England Coke is so clean is due in part to its structure—that is, its hard, firm character which results in freedom from breakage and dust. The most important reasons, however, lie in the care with which the "raw" fuels which go into New England Coke are first selected and then processed.

Housewives especially like New England Coke for its cleanliness because it does away with the irksome tasks of laundering and housecleaning which a less carefully manufactured fuel necessitates. And in those homes where women prefer to take care of the heater, users of New England Coke find its cleanliness as well as its lightness and ease of handling welcome indeed.

You'll be surprised at the little attention required. A New England Coke fire normally needs attention only once each morning and night. And it's so easy to run a heater with this superior fuel! There are only three simple rules. Fill the firebox full, use less draft than is necessary for other solid fuels and shake gently.

A primitive kind of coke was made by the Chinese as loug as 2000 years ago. Today, benefited by centuries of scientific advancement and experimental research, man is able to make an immeasurably superior product. Yet even today there is a big difference between cokes. New England Coke is made in the largest domestic coke plant in the world, and every pound of New England Coke is the result of careful, scientifically controlled manufacturing processes.

Because there is so much difference between New England Coke and inferior products, New England Coke dealers place a little seal on your delivery ticket certifying that the fuel you have received is genuine, GUARANTEED New England Coke.

Every ton of New England Coke that is sold is guaranteed to give complete satisfaction. And every purchaser of New England Coke is entitled to a free demonstration of the proper methods of firing this fuel. If after such a demonstration, the customer is dissatisfied for any reason, the remaining fuel will be removed without charge and his money will be refunded.

Whatever type of heater you may have, you'll find that New England Coke will heat your home efficiently and economically. It will maintain a steady flow of heat for the warm air or hot water heater as well as "get up steam" quickly in a steam heater.

There are sizes of New England Coke for all types of heaters. Your fnel dealer will advise you which one to use for the best results in your heater.

New England Coke is definitely a New England product. It is not only made in New England by New England labor, but it is made especially for the best results in New England homes. New England weather does shift from one extreme to another, and New England Coke is manufactured with this in mind. This fuel is quickly responsive to the demands of sudden changes, yet gives a steady, even heat under all conditions.

There are hundreds of fuel dealers all over New England who have been appointed authorized distributors of New England Coke.

These dealers all display the familiar blue and white New England Coke shield.

Look for this emblem in buying your fuel.

If you don't know where you can buy New England Coke, the GUARANTEED fuel, in your neighborhood, write or telephone to the New Eugland Coke Company. (See opposite page for address and telephone number.)



Economical Less Ash Cleaner More Heat Guaranteed

Made in New England by New England Labor for New England Homes. Sold all over New England by Authorized Dealers. Look for the blue and white shield.

NEW ENGLAND COKE COMPANY 250 Stuart Street, Boston, Mass. HUBBARD 4670 Not quite as old as the Old Farmer's Almanac

—but a favorite for one hundred years

The Boston Post

The Breakfast Table Paper of New England

By reading the Boston Post every day you get the news and features that over 400,000 readers find they cannot get along without.

Any Newsdealer will provide the Post for you regularly, or you may order it direct from the Boston Post for 50c a month, or \$5 a year, either Daily or Sunday.

For over 50 years Glenwood

the famous New England range has made cooking easier in countless homes



If you burn coal, gas, oil or wood for cooking and heating there's a

Glenwood

RANGE or HEATER
made for you at a price to fit
your pocketbook

See them at the authorized Glenwood Dealer — or write to Glenwood Range Co., Taunton, Mass., Boston office 60 Union Street

IT PAYS TO OWN A GLENWOOD

Boston Transcript Almanac for 1933

(Published as a Guide to Intelligent and Entertaining Reading During the Next Twelve Months)

JANUARY

SNOW. Our City Editor is Snowed Under With City Activities at Their Height and Typewriters flumming With Humor, Gossip and Significant Discussion.

FEBRUARY

THAW, Our Fashion Editor Thaws Out With the Ground Hog to Forecast What the Well Dressed Woman Will Be Wearing Next Spring.

WIND. Our Editorial Writers Glory in This Month by Taking the Wind Out of Political Chatter to Make It Informing and Interesting.

APRIL SHOWERS. Our Real Estate Editor Enjoys This Month Providing Places to Visit Between Showers.

MAY

BLOSSOM TIME. Social Events Rival Flowers in Blossoming at This Time of Year and Our Society Editor Works Over Time to Keep You Informed On Who Will Be Whose Bride Next Month.

JUNE
RARE DAYS. Our School and College Department Hustles All
Over New England Handing Out Diplomas.

JULY

HOT. Our Out-of-Town Correspondents Tour Vacation-Land to Find the Cool Spots Where Your Friends Are Enjoying Themselves.

AUGUST

DOG DAYS. Our City Editor Goes Out to Find the Dog While Our Magazine Editor Provides You With Light Entertaining Features to Take Your Mind Off the Weather.

SEPTEMBER

LABOR DAYS. Our Trade and Financial Editors Read Charts and Statistics Night and Day to Furnish You an Intelligent Picture of What the Fall Business Will Be.

OCTOBER

INDIAN SUMMER. Our Sports Editor Works Saturday Afternoons to Give You the Usual Sunday Accounts Saturday Evening.

NOVEMBER

COLD. Our Music and Drama Editor Keeps You Supplied With Enough Entertaining Reading So You Can Stay Inside and Escape the Chilly Air.

DECEMBER

BLIZZARDS. Our Book Editor Sorts Out the Fall Blizzard of Books and Shows You What You Will Want to Read Yourself and What You Will Want to Give Your Friends for Christmas.

EVERY MONTH

AND EVERY WEEK For that Matter, The Boston Evening Transcript provides you with these and many other features, including two long-time favorites, The Churchman Afield and The Genealogical Department. Above all, it provides you with accurate and comprehensive news that is not only informative, but delightful reading.

Have you tried -

AGRICO

An improvement in fertilizers backed by 75 years of experience

For 75 years The American Agricultural Chemical Co., has been making fertilizers in New England, especially adapted to the needs of New England's erops, soils, and short-growing scason. Its Bowker, Bradley, E. Frank Coe and A. A. C. brands are well known to three generations of New England farmers.

Recently, after years of research and eareful field tests, The American Agricultural Chemical Co., offered a new brand of fertilizer called Agrico. The immediate success of Agrico exceeded all expectation. Now, wherever crops are grown, farmers are changing to Agrico.

Farmers are changing to Agrico because they are getting better crops with Agrico. And here's why. Agrico contains extra plant foods that provide extra crop-producing power.

Agrieo has the same high quality and good mechanical condition that made the other "AA QUALITY" Brands so popular. And in addition to the usual amount of nitrogen, phosphorus and potash found in these standard grades of fertilizer, Agrieo brings to the crop, new, important, health-giving, plant-food elements that have long been needed. Agrieo is truly a real improvement in fertilizers—a step forward in the science of plant feeding.

If you haven't used Agrieo yet, try it this eoming season on at least a part of your crops and see the difference it ean make. Remember Agrieo is made only by The American Agricultural Chemical Co. and there's a brand especially made for each crop.

Specially indicates					Available Nitrogen Phosphoric Potash Acid		
Agrico for Lawns, Tr	ces a	nd S	Shrub	s.	7	6	6
Agrico for Fruit					7	6	6
Agrico for Aroostook	with	10%	% Pot	ash			
(Potato Grade)					5	8	10
Agrico for Aroostook	(Pot	ato	Grade	e) .	5	8	7
Agrico for Truck	•				4	10	5
Agrico for New Engla	ınd				4	8	10
Agrico for Onions					3	10	6
Agrico for Corn					3	10	6
Agrico for Grain					2	12	4

Consult your nearest "AA Quality" Dealer. Or write to us concerning your soil and fertilizer problems.

The AMERICAN AGRICULTURAL CHEMICAL Co.

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West Haven, Conn.

Read the only general Farm Magazine for New England rural folks

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NEW ENGLAND HOMESTEAD, Springfield, Mass.

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WHAT IS MOXIE?

Moxie is a pure, refreshing, wholesome, distinctively different, carbonated beverage originally made in New England nearly fifty years ago and now rapidly extending its field of distribution throughout the United States and to foreign lands.

It is a healthful, beneficial, thirst-quenching drink, which re-

freshes and invigorates delightfully and quickly.

Every bottle of Moxie contains more than eighteen separate and distinct elements. Each one of the beverage ingredients is wholesome and of purest quality; compounded, blended, thoroughly aged and bottled under carefully supervised hygienic conditions by the most modern methods.

Doctors, chemists, pure food experts and dietitians are not only regular users of Moxie, but also constantly suggest its use by others, because Moxie is a complete, satisfying and effective thirst-quencher in itself. The scientific blending of woodland herbs and roots produces an aromatic tang and a delicious sweet-bitter taste, which is unique and distinctive.

Public speakers, opera singers, theatrical stars and athletic champions have found Moxie refreshingly helpful, very soothing and re-vivifying in the course of their most strenuous efforts.

Quality and Purity have always been and shall ever be the

predominating policies in the production of Moxie.

Artistic labels, gold foil and fancy packages are not necessary to attract Moxie customers. The plain Moxie bottle has been the insignia of quality for nearly fifty years and is our and your continuing assurance of genuineness.

Ask for Moxie at your neighborhood store. Serve it to your family and your house guests. It has a new taste-thrill, the thrill of a famous flavor that whets the appetite and satisfies thirst.

It is distinctively different.

Ask any one of the millions of children, grown-ups and grand-daddies who are Moxie drinkers why it is that "a case in the cupboard and a bottle in the ice-box" has become a widespread custom. Then you will hear so many nice things about Moxie that further explanation on our part will be unnecessary.

Moxie is a safe drink always, because the high standard maintained in its making guarantees the same uniform purity and

quality in every bottle.

Moxie may be obtained at all first-class soda fountains in bottles or instantly prepared by the dispenser from genuine

Moxie syrup.

If by chance you have never been favored with a glass of Moxie, may we ask your indulgence now. Take a "two-minute vacation" today with a glass of Moxie at your neighborhood store. Try it again tomorrow. Try it when you are tired; when you are thirsty. Each glassful of this appetizing bitter-sweet flavored beverage will taste better than the last one. Drink it before meals and with your meals. Serve it when company drops in. Give it to the children any time, because Moxie always tastes good and is good for everybody.

We greet you with this message. You will find that our friendly way of doing business and the methods we use in calling attention of the public to the merits of Moxie will be as attractive and as unique as the beverage itself, which for nearly half a century has been first in distribution of all New England beverages. Everybody here knows Moxie intimately.

FRANK M. ARCHER, General Manager
THE MOXIE COMPANY
Boston, Massachusetts

NATIONAL BROADCASTING COMPANY, INC.

PROGRAM MANAGERS
OF
BROADGASTING STATIONS
W B Z AND W B Z A



BOSTON, MASS

December 1, 1932.

My dear Ferm Friends:

A Connecticut poultryman writes me that he frequently receives 30 to 90 cents premium for a case of eggs because he listens to our daily agricultural programs. A Maine farmer finds the potato merket broadcast an important factor in marketing his crop. Hundreds of other letters testify to the value of radio market reports and the practical application of suggestions by our guest speakers.

It does not make any difference whether you have just a few fruit trees, a backyard garden or a large farm, you can get complete market information and timely suggestions that will mean dollars and cents to you.

These programs are broadcast to you over the New England stations WBZ and WBZA in cooperation with the United States Department of Agriculture and the Departments of Agriculture of the several New England states. They are for the entire farm family. There are two broadcasts each day for the farmer, a morning program for the homemaker and a weekly 4-H broadcast for the boys and girls.

I am eager to heve these programs of ever-increasing value. Please be sure to call on me whenever you are in Boston. Your letters of comment and suggestion are always appreciated and, of course, we shall be glad to send you a detailed program of our agricultural broadcasts.



Very cordially yours,

E. J Rowell, Director
New England Agricultural Progrems

America's favorite Silver Polish since 1865!



CANDO Silver Polish

For more than 68 years, CANDO has safeguarded the family silver....keeping it bright and beautifulthrough each successive generation. A soft, creamy paste that removes tarnish and restores lustre—safely quickly—easily. Unequalled for Silver, Gold, Nickel, Cut Glass, Porcelain and all fine surfaces.

-and now-to keep your metals gleaming— CANDO LIQUID METAL POLISH

Brass—copper—aluminum—wherever there is a dull, unsightly metal surface to restore to brilliant beauty — let Cando Liquid Metal Polish save you time and labor. Works quickly. Requires less rubbing. Gives unfailing results. Unequalled for pipes, faucets and bright work in the home.

Dispel stale, musty, disagreeable odors with Eyptian Deodorizer & Aerofume

A delightfully fragrant little candle that dispels odors from cooking; fresh paint, smoking, and other sources.



Indispensable in nursery and bathroom. Keeps air sweet and free from taint. Affords comfort and relief in the sickroom.

 $16\,handy\,little\,\,candles\,in\,convenient\,box-complete\,with\,holder$

Ask your Jeweler for Cando Pewter Polish

For a brighter, more cheerful home — insist on CANDO products. If your dealer does not stock them — kindly send us his name and address.

THE CANDO CORPORATION

25 Thorndike Street, Cambridge, Mass.



A Distinctive New England Organization

A great group of enterprising New England Grocers and Druggists, — 8,000 of them, — take pride in this Naborhood Store Insignia.

Centered among homes, and identified by this symbol of service and of mutual interest, their stores supply life's necessities, — both food and medicinal, — to their Nabors. Desiring to furnish the products most satisfactory to the families they serve, the progressive grocers and druggists of New England have found these products grouped best among those advertised in New England's street cars and buses.

There, before 96 million riders each month, these products are advertised beside the Naborhood Car Card and the Naborhood Store Insignia. As a result, car-riders, faced, as they alight, by the Insignia on the window and the display in the window, have come to act instinctively upon the three-fold tie-up between

The Manufacturer's Card in the Cars

The Dealer's Window Display
The Dealer's Counter Display

a tie-up, which completes the bond of mutual confidence and business relationship between producer, retailer, and consumer.

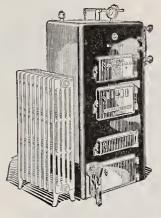
Cementing all into unity, are the field men of New England Merchandisers, Inc., anxious to serve and to assist with advice and information. The Naborhood Store's interests are their interests.

We rejoice that the Dual Appeal of Naborhood Car Card and Naborhood Insignia, which was designed to foster this community of interest, has been so outstandingly successful through the years.

EASTERN ADVERTISING COMPANY

"Car Card Advertising all over New England"

209 Washington Street, Boston, Mass.





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12 big issues with over 600 pages a year, packed full of live poultry news and poultry facts. Edited by experts and read by all the alert poultry raisers of New England.

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Who Would Read

New England Poultryman is the trusted teacher of advanced poultry practices in the most advanced poultry raising section of the world.

TO THOSE

Who Would Advertise

New England Poultryman offers its approved advertisers a market place where they can do business with discriminating buyers of quality goods.

We believe that the poultrymen of New England produce the highest quality poultry and eggs that can be produced because they are the best informed in scientific methods. We are proud to have helped them to establish their present leadership.

You, too, can share their knowledge and its resultant prosperity by reading regularly *New England Poultryman*. Send 25c today for trial subscription, bringing you the next 3 numbers priced 20c each.

New England Poultryman

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(Overlooking Old Boston Common)



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In nearly every large city and town in the United States, in England, in France, in Germany, in far off Australia, in remote places in Africa, in fact on all the main highways of the world, you will find regular subscribers and eager readers of THE CHRISTIAN SCIENCE MONITOR.

Out of New England has come this newspaper which "dares to be different," in that it prints only the constructive news of the world, and refuses to exploit crime and scandal.

Are you, who live in Boston or New England, acquainted with this paper which is fast becoming such an important factor in promoting international good will? Do you know its keen editorials, its March of the Nations column, its features on the best books, art and music of the world? If not, sign the coupon now and begin to read this newspaper.

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Please enter my subscription to The Christian Science Monitor for a period of \square one month 75c; \square three months \$2.25; \square six months \$4.50; \square one year \$9.00, for which I enclose remittance.
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NEW SQUARE SHAPE

They're Thinner.

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FRESH BAKED DAILY FOR 10,000 GROCERS!

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EVERY BITE A

Rubber Footwear Calendar

- JANUARY—Snow. Bad month for COLDS. The whole family needs gaiters. Ask for FIRE-STONE. Also rubber boots for your FARM WORK.
- FEBRUARY—Snow. Beginning to thaw. Rubber boots by FIRESTONE essential. Rubber gaiters for the whole family, to keep their feet WARM and DRY,
- MARCH—Slush, mud. FIRESTONE Farmsters for FARM WORK. Keep the gaiters handy. As the ground begins to get a little drier, get FIRESTONE rubbers.
- APRIL—Showery. It doesn't pay to get the feet WET. FIRE-STONE light rubbers just the thing for the whole family. Fishing season opens. See pages 55, 56. See also FIRESTONE fishing boots.
- MAY—Sunny days, Canvas shoes for the young people now in order. Best value made by FIRESTONE.
- JUNE—Warm days, Now everybody needs canvas shoes. Deb Sandals for the girls and women. Best style and value by FIRESTONE. FIRESTONE tennis shoes in order.

- JULY—Hot days. Deb Sandals by FIRESTONE wanted by everybody. Canvas shoes for the CAMP. Also FIRE-STONE footholds for showery days.
- AUGUST Even HOTTER. Deb Sandals by FIRESTONE. New canvas shoes for the boys.
- SEPTEMBER-Cool days. School opens. New canvas shoes for school boys and girls. Also special FIRESTONE gym shoes.
- OCTOBER Cooler days. Get FIRESTONE rubbers for all the leather shoes you are now buying. Hunting season opens. See page 51. FIRESTONE hunting boots at your dealer's.
- NOVEMBER—Cold rains. A little snow. Gaiters made of rubber, lined for warmth, by FIRESTONE, for all the family. Basketball season. Thorogrip best basketball shoe made.
- DECEMBER—Cold, snow. Be sure you have protected your-self. FIRESTONE protective footwear in all wanted styles, at prices giving best values. Useful Christmas presents are FIRESTONE gaiters, rubbers, galoshes for the whole family. Fancy boots for children.

Firestone Protective Footwear is made in New England and may be obtained at all Department and Shoe stores. If your dealer has not your size he will obtain it from Firestone Footwear Co., 141 Brookline Ave., Boston, U. S. A.

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IS PURE BICARBONATE OF SODA



Known for generations as a necessity when cooking, Arm & Hammer Soda is an effective first aid for burns or scalds.

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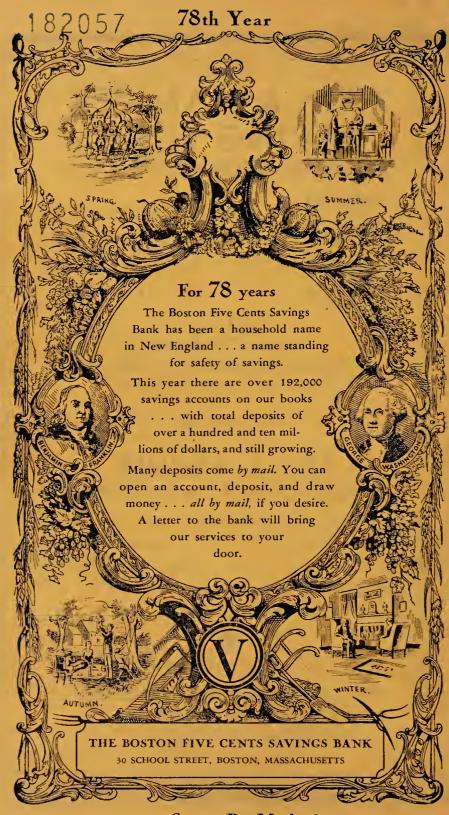
is used exclusively for cleansing purposes. It does its work thoroughly and safely, because it contains no caustic, lye or other harmful ingredients and completely dissolves in water, preventing any possibility of clogging drain pipes.

TO CLEAN WITH EASE USE

ARM & HAMMER WASHING SODA

CHURCH & DWIGHT CO., INC. 70 PINE STREET, NEW YORK, N. Y.

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